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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS 3	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS 4	MAR 31	CA/CAplus and CASREACT patent number format for U.S. applications updated
NEWS 5	MAR 31	LPCI now available as a replacement to LDPCI
NEWS 6	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 7	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS 8	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 9	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS 10	APR 28	IMSRESEARCH reloaded with enhancements
NEWS 11	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS 12	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 13	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 14	JUN 06	KOREAPAT updated with 41,000 documents
NEWS 15	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 16	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 17	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS 18	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 19	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 20	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 21	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 22	JUL 28	CA/CAplus patent coverage enhanced
NEWS 23	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 24	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 25	JUL 28	STN Viewer performance improved
NEWS 26	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 27	AUG 13	CA/CAplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 28	AUG 15	CAOLD to be discontinued on December 31, 2008

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 NEWS 29  AUG 15  CAplus currency for Korean patents enhanced

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:05:35 ON 20 AUG 2008

=> b reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 17:05:57 ON 20 AUG 2008
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STRUCTURE FILE UPDATES:   19 AUG 2008  HIGHEST RN 1042061-07-3
DICTIONARY FILE UPDATES:  19 AUG 2008  HIGHEST RN 1042061-07-3

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> s cyclodextrin?/cns and methylimidazo?/cns
         32679 CYCLODEXTRIN?/CNS
         15763 METHYLIMIDAZO?/CNS
L1           2 CYCLODEXTRIN?/CNS AND METHYLIMIDAZO?/CNS

=> d l1 scan
```

L1 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

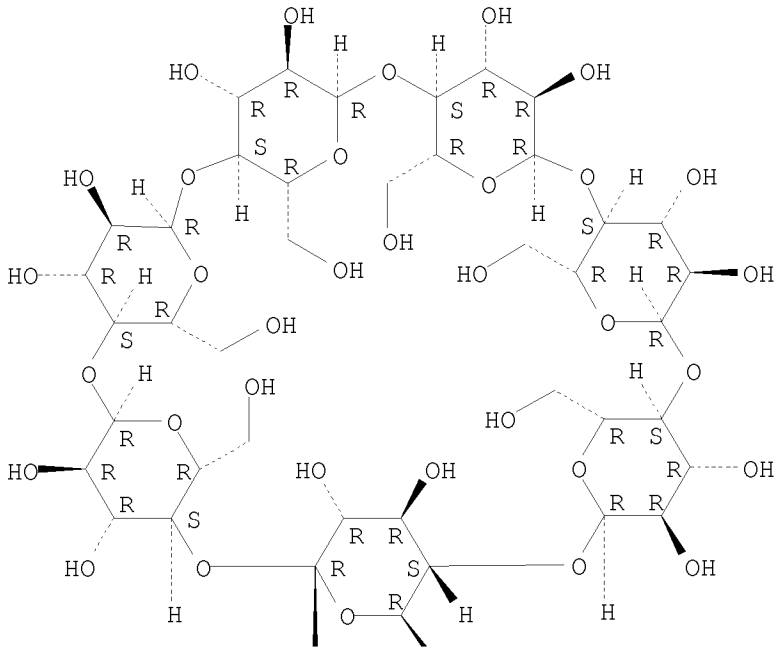
IN β-*Cyclodextrin, compd. with 3-dodecyl-1-methyl-1H-imidazolium hexafluorophosphate(1-) (1:1:1)*

MF C42 H70 O35 . C16 H31 N2 . F6 P

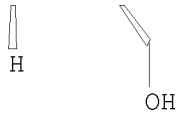
CM 1

Absolute stereochemistry.

PAGE 1-A

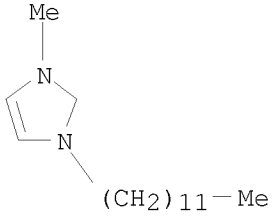


PAGE 2-A



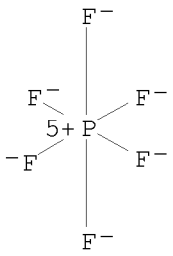
CM 2

CM 3



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 4

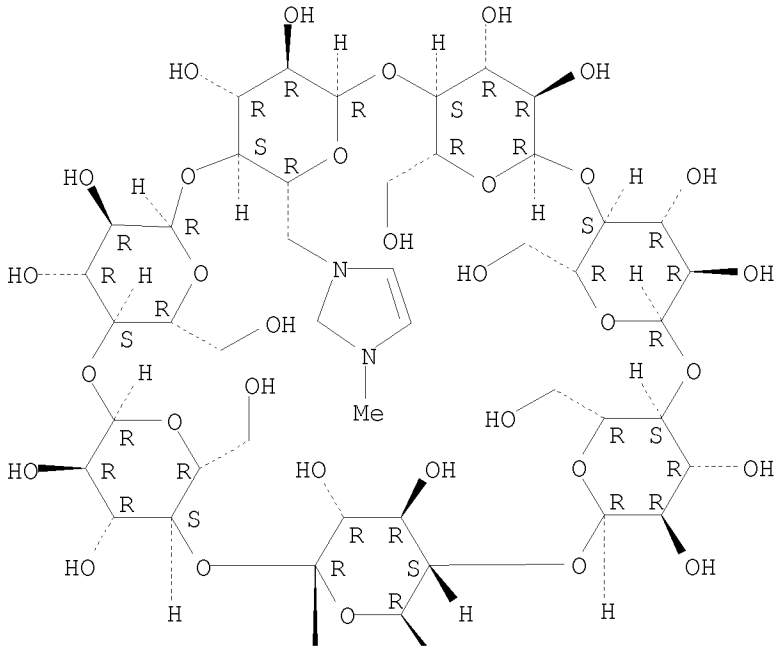


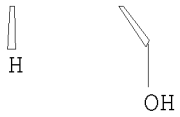
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L1 2 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN β-Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-, chloride (1:1)
MF C46 H75 N2 O34 . Cl

Absolute stereochemistry.

PAGE 1-A





ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d l1 1-2

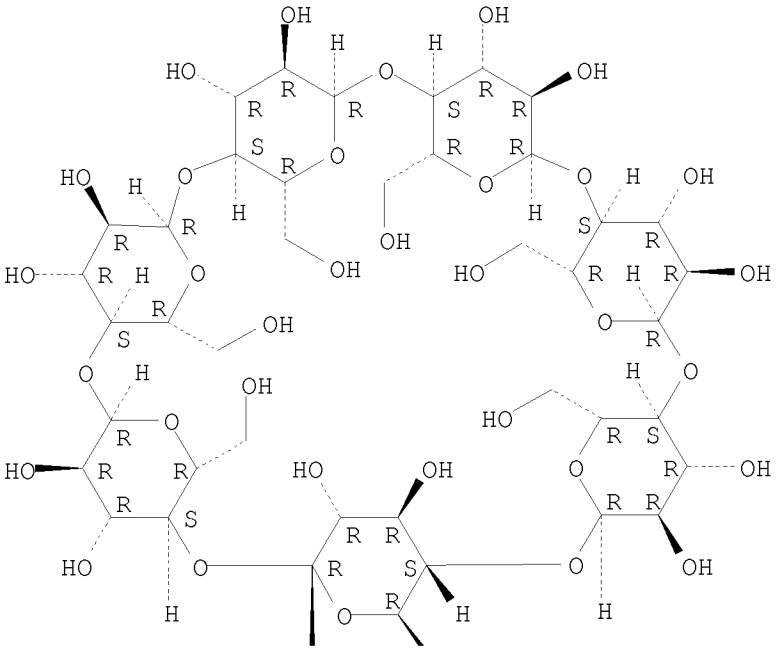
L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN
RN 888615-35-8 REGISTRY
ED Entered STN: 21 Jun 2006
CN β-*Cyclodextrin, compd. with 3-dodecyl-1-methyl-1H-imidazolium hexafluorophosphate(1-) (1:1:1)* (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN β-*Cyclodextrin, compd. with 1-dodecyl-3-methyl-1H-imidazolium hexafluorophosphate(1-) (1:1) (9CI)*
OTHER NAMES:
CN β-*Cyclodextrin-1-dodecyl-3-methylimidazolium hexafluorophosphate complex (1:1)*
FS STEREOSEARCH
MF C42 H70 O35 . C16 H31 N2 . F6 P
SR CA
LC STN Files: CA, CAPLUS

CM 1

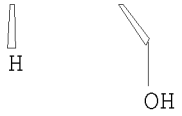
CRN 7585-39-9
CMF C42 H70 O35

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

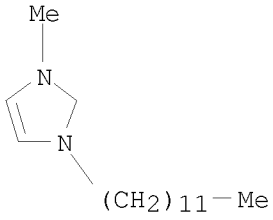


CM 2

CRN 219947-93-0
CMF C16 H31 N2 . F6 P

CM 3

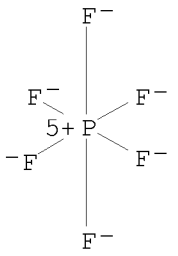
CRN 46928-10-3
CMF C16 H31 N2



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 4

CRN 16919-18-9
CMF F6 P
CCI CCS

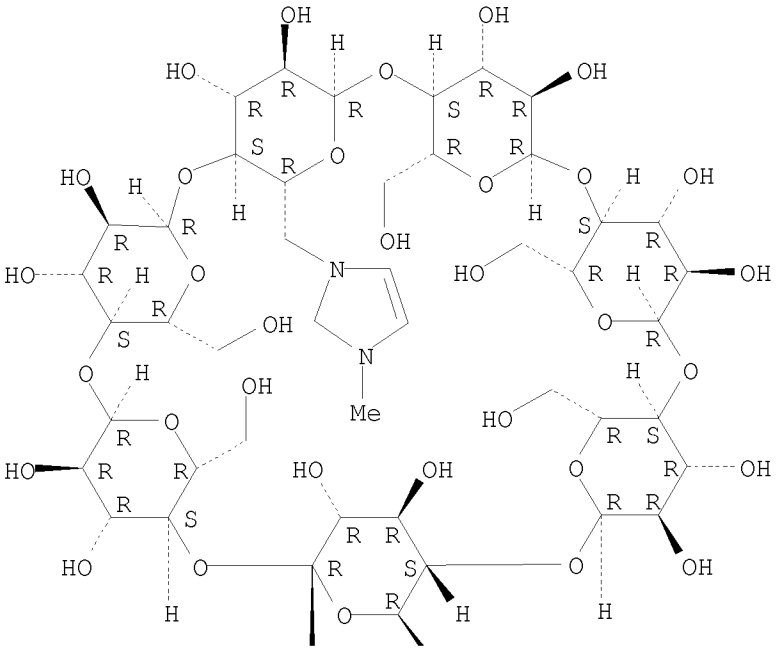


2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

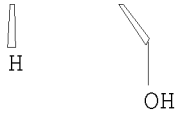
L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2008 ACS on STN
RN 849599-56-0 REGISTRY
ED Entered STN: 02 May 2005
CN β-Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-, chloride (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN β-Cyclodextrin, 6A-deoxy-6A-(3-methyl-1H-imidazolium-1-yl)-, chloride (9CI)
OTHER NAMES:
CN Mono-6-(3-methylimidazolium)-6-deoxy-β-cyclodextrin chloride
FS STEREOSEARCH
MF C46 H75 N2 O34 . Cl
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL
CRN (849599-45-7)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.76	14.97

FILE 'REGISTRY' ENTERED AT 17:06:49 ON 20 AUG 2008

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DICTIONARY FILE UPDATES: 19 AUG 2008 HIGHEST RN 1042061-07-3

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> s l1
         32679 CYCLODEXTRIN?/CNS
         15763 METHYLIMIDAZO?/CNS
L2   2 CYCLODEXTRIN?/CNS AND METHYLIMIDAZO?/CNS

=> b caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                         ENTRY   SESSION
FULL ESTIMATED COST   10.76   25.73

FILE 'CAPLUS' ENTERED AT 17:07:04 ON 20 AUG 2008
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FILE COVERS 1907 - 20 Aug 2008 VOL 149 ISS 8
FILE LAST UPDATED: 19 Aug 2008 (20080819/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/legal/infopolicy.html

=> s l1
L3   8 L1

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=> s l1 and py<=2003
             8 L1
      24009471 PY<=2003
L4           0 L1 AND PY<=2003

=> d l3 scan

L3    8 ANSWERS   CAPLUS  COPYRIGHT 2008 ACS on STN
IC    ICM  C08B037-16
      ICS  C07B053-00; C07B063-02; B01D015-08
CC    44-6 (Industrial Carbohydrates)
      Section cross-reference(s): 21
TI    Cationic oligomer of a saccharide for resolving enantiomers and asymmetric
      synthesis
ST    cyclodextrin cationic oligomer enantiomer resoln asym synthesis; chiral
      agent cationic cyclodextrin oligomer enantiomer resoln chromatog
IT    Polysaccharides, preparation
      RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP
      (Preparation); USES (Uses)
         (cationic oligomers; manufacture of cationic oligomer of saccharide for
         resolving enantiomers and asym. synthesis)
IT    Asymmetric synthesis and induction
      Chromatography
      Diels-Alder reaction
      Enantiomers
         (manufacture of cationic oligomer of saccharide for resolving enantiomers
         and asym. synthesis)
IT    Inclusion compounds
      RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP
      (Preparation); USES (Uses)
         (manufacture of cationic oligomer of saccharide for resolving enantiomers
         and asym. synthesis)
IT    29390-67-8P, Mono-6-amino-6-deoxy-β-cyclodextrin   849599-46-8P
      849599-49-1P   849599-52-6P 849599-56-0P   849599-69-5P
      849599-70-8P   849599-72-0P   849599-73-1P   849599-76-4P   854929-85-4P
      854929-87-6P   854929-89-8P   854929-90-1P   854929-91-2P
      RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PREP
      (Preparation); USES (Uses)
         (manufacture of cationic oligomer of saccharide for resolving enantiomers
         and asym. synthesis)
IT    74-88-4, Methyl iodide, reactions   107-10-8, n-Propylamine, reactions
      107-11-9, Allylamine   109-73-9, n-Butylamine, reactions   110-58-7,
      n-Pentylamine   110-86-1, Pyridine, reactions   459-57-4,
      4-Fluorobenzaldehyde   616-47-7, 1-Methylimidazole   4316-42-1,
      1-Butylimidazole   7393-43-3, Tetraallyltin   21252-69-7, 1-Octylimidazole
      67217-55-4, 6-O-Tosyl-β-cyclodextrin   67217-55-4   128262-67-9
      854929-92-3
      RL: RCT (Reactant); RACT (Reactant or reagent)
         (manufacture of cationic oligomer of saccharide for resolving enantiomers
         and asym. synthesis)
IT    854929-94-5P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (manufacture of cationic oligomer of saccharide for resolving enantiomers
         and asym. synthesis)
IT    7646-69-7, Sodium hydride
      RL: RGT (Reagent); RACT (Reactant or reagent)
         (manufacture of cationic oligomer of saccharide for resolving enantiomers
         and asym. synthesis)
```

IT 136185-86-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(manufacture of cationic oligomer of saccharide for resolving enantiomers and asym. synthesis)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 80-4 (Organic Analytical Chemistry)
TI Synthesis and application of single-isomer 6-mono(alkylimidazolium)-β-cyclodextrins as chiral selectors in chiral capillary electrophoresis
ST alkylimidazoliumcyclodextrin chiral selector capillary electrophoresis dansyl amino acid enantiosepn
IT Amino acids, analysis
RL: ANT (Analyte); ANST (Analytical study)
(aromatic, dansyl; synthesis and application of single-isomer mono(alkylimidazolium)-β-cyclodextrins as chiral selectors in capillary electrophoresis for enantiosepn. of dansyl amino acids)
IT Resolution (separation)
(electrophoretic; synthesis and application of single-isomer mono(alkylimidazolium)-β-cyclodextrins as chiral selectors in capillary electrophoresis for enantiosepn. of dansyl amino acids)
IT Capillary electrophoresis
(synthesis and application of single-isomer mono(alkylimidazolium)-β-cyclodextrins as chiral selectors in capillary electrophoresis for enantiosepn. of dansyl amino acids)
IT 1098-50-6, Dansyl-L-valine 1100-22-7, Dansyl-L-leucine 1101-68-4, Dansyl-L-glutamic acid 1104-36-5, Dansyl-L-phenylalanine 17039-57-5, Dansyl-DL-tryptophan 17039-58-6, Dansyl-L-methionine 19461-29-1, Dansyl-L-tryptophan 35021-12-6, Dansyl-L-serine 35021-15-9, Dansyl-L-norvaline 35021-16-0, Dansyl-L-threonine 35021-19-3, Dansyl-L-norleucine 42808-05-9, Dansyl-DL-valine 42808-06-0, Dansyl-DL-phenylalanine 48196-47-0, Dansyl-DL-serine 48208-47-5, Dansyl-DL-methionine 56176-31-9, Dansyl-D-phenylalanine 58260-76-7, Dansyl-L-α-aminobutyric acid 61417-01-4, Dansyl-DL-norleucine 65452-14-4, Dansyl-DL-leucine 68973-58-0, Dansyl-DL-glutamic acid 70136-17-3, Dansyl-D-tryptophan 77426-54-1, Dansyl-D-valine 77426-56-3, Dansyl-D-norleucine 77426-57-4, Dansyl-DL-norvaline 77426-58-5, Dansyl-D-α-aminobutyric acid 77481-08-4, Dansyl-D-threonine 77481-09-5, Dansyl-D-serine 77481-10-8, Dansyl-D-methionine 77481-11-9 77481-12-0, Dansyl-DL-α-aminobutyric acid 95465-24-0, Dansyl-D-glutamic acid 99388-22-4, Dansyl-D-leucine 162489-44-3 162489-45-4 171202-09-8
RL: ANT (Analyte); ANST (Analytical study)
(analyte; synthesis and application of single-isomer mono(alkylimidazolium)-β-cyclodextrins as chiral selectors in capillary electrophoresis for enantiosepn. of dansyl amino acids)
IT 616-47-7, 1-Methylimidazole 1739-84-0, 1,2-Dimethylimidazole 4316-42-1, 1-Butylimidazole 33529-02-1, 1-Decylimidazole 67217-55-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(in synthesis of single-isomer mono(alkylimidazolium)-β-cyclodextrins as chiral selectors in capillary electrophoresis)
IT 77426-55-2, Dansyl-D-norvaline
RL: ANT (Analyte); ANST (Analytical study)
(synthesis and application of single-isomer mono(alkylimidazolium)-β-cyclodextrins as chiral selectors in capillary electrophoresis for enantiosepn. of dansyl amino acids)
IT 849599-46-8P 849599-49-1P 849599-55-9P *849599-56-0P* 849599-58-2P 849599-60-6P 873221-12-6P 873221-17-1P

RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(synthesis and application of single-isomer mono(alkylimidazolium)-β-cyclodextrins as chiral selectors in capillary electrophoresis for enantiosepn. of dansyl amino acids)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 46-3 (Surface Active Agents and Detergents)
TI Inclusion Complexes of β-Cyclodextrin with Ionic Liquid Surfactants
ST cyclodextrin long alkyl methylimidazolium hexafluorophosphate inclusion complex surface tension
IT Ionic liquids
Surface tension
Surfactants
(inclusion complexes of β-cyclodextrin with ionic liquid surfactants)
IT Inclusion compounds
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
(inclusion complexes of β-cyclodextrin with ionic liquid surfactants)
IT *888615-35-8*, β-Cyclodextrin-1-dodecyl-3-methylimidazolium hexafluorophosphate complex (1:1) 888615-36-9 888615-37-0 888615-38-1 888615-39-2
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
(inclusion complexes of β-cyclodextrin with ionic liquid surfactants)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 33-4 (Carbohydrates)
TI Complex formation of ionic liquid surfactant and β-cyclodextrin
ST dodecylmethylimidazolium fluorophosphate ionic liq surfactant cyclodextrin inclusion complex formation
IT Inclusion reaction
Ionic liquids
(complex formation of ionic liquid surfactant and β-cyclodextrin)
IT Inclusion compounds
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
(complex formation of ionic liquid surfactant and β-cyclodextrin)
IT *888615-35-8* 888615-38-1
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
(complex formation of ionic liquid surfactant and β-cyclodextrin)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 80-4 (Organic Analytical Chemistry)
TI Effect of alkylimidazolium substituents on enantioseparation ability of single-isomer alkylimidazolium-β-cyclodextrin derivatives in capillary electrophoresis
ST alkylimidazolium cyclodextrin chiral selector dansyl amino acid

enantiosepn electrophoresis; substituent effect alkylimidazolium cyclodextrin chiral selector enantiosepn electrophoresis

IT Amino acids, analysis
RL: ANT (Analyte); ANST (Analytical study)
(aromatic, dansyl, analytes; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

IT Capillary electrophoresis
(effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

IT Molecular structure-property relationship
(electrophoresis, of mono(alkylimidazolium)-β-cyclodextrins; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

IT Resolution (separation)
(electrophoretic; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

IT 1098-50-6, Dansyl-L-valine 1101-68-4, Dansyl-L-glutamic acid 1104-36-5, Dansyl-L-phenylalanine 35021-12-6, Dansyl-L-serine 35021-15-9, Dansyl-L-norvaline 35021-16-0, Dansyl-L-threonine 35021-19-3, Dansyl-L-norleucine 42808-05-9, Dansyl-DL-valine 42808-06-0, Dansyl-DL-phenylalanine 48196-47-0, Dansyl-DL-serine 56176-31-9, Dansyl-D-phenylalanine 58260-76-7, Dansyl-L-α-aminobutyric acid 61417-01-4, Dansyl-DL-norleucine 68973-58-0, Dansyl-DL-glutamic acid 77426-54-1, Dansyl-D-valine 77426-55-2, Dansyl-D-norvaline 77426-56-3, Dansyl-D-norleucine 77426-57-4, Dansyl-DL-norvaline 77426-58-5, Dansyl-D-α-aminobutyric acid 77481-08-4, Dansyl-D-threonine 77481-09-5, Dansyl-D-serine 77481-11-9 77481-12-0, Dansyl-DL-α-aminobutyric acid 95465-24-0, Dansyl-Dglutamic acid 162489-44-3, Dansyl-L-α-aminocaprylic acid 162489-45-4, Dansyl-D-α-aminocaprylic acid 171202-09-8, Dansyl-DL-α-aminocaprylic acid
RL: ANT (Analyte); ANST (Analytical study)
(analyte; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

IT *849599-56-0*
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); ANST (Analytical study); USES (Uses)
(chiral selector; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

IT 930276-66-7
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); ANST (Analytical study); USES (Uses)
(chiral selector; effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

IT 849599-58-2 930276-68-9
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); ANST (Analytical study); USES (Uses)
(effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

IT 930276-67-8
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);

PRP (Properties); ANST (Analytical study); USES (Uses)
(effect of alkylimidazolium substituents on enantiosepn. ability of single-isomer alkylimidazolium-β-cyclodextrin derivs. in capillary electrophoresis)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 34-2 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 80
TI Chiral separation of dansyl amino acids in capillary electrophoresis using mono-(3-methyl-imidazolium)-β-cyclodextrin chloride as selector
ST dansylamino acid enantiosepn capillary electrophoresis methylimidazoliumcyclodextrin chloride chiral selector
IT Amino acids, preparation
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); ANST (Analytical study); PREP (Preparation); PROC (Process)
(aromatic, dansyl; enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)
IT Capillary electrophoresis
Resolution (separation)
(enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)
IT 17039-57-5, Dansyl-DL-tryptophan 42808-04-8, Dansyl-DL-alanine 42808-05-9, Dansyl-DL-valine 42808-06-0, Dansyl-DL-phenylalanine 42808-07-1, Dansyl-DL-aspartic acid 48196-47-0, Dansyl-DL-serine 48208-47-5, Dansyl-DL-methionine 61417-01-4, Dansyl-DL-norleucine 65452-14-4, Dansyl-DL-leucine 68973-58-0, Dansyl-DL-glutamic acid 77426-57-4, Dansyl-DL-norvaline 77481-11-9 77481-12-0 171202-09-8
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process)
(enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)
IT 1098-50-6P, Dansyl-L-valine 1100-22-7P, Dansyl-L-leucine 1100-24-9P, Dansyl-L-aspartic acid 1101-68-4P, Dansyl-L-glutamic acid 1104-36-5P, Dansyl-L-phenylalanine 17039-58-6P, Dansyl-L-methionine 19461-29-1P, Dansyl-L-tryptophan 35021-10-4P, Dansyl-L-alanine 35021-12-6P, Dansyl-L-serine 35021-15-9P, Dansyl-L-norvaline 35021-16-0P, Dansyl-L-threonine 35021-19-3P, Dansyl-L-norleucine 56176-31-9P, Dansyl-D-phenylalanine 56176-32-0P, Dansyl-D-alanine 58260-76-7P 70136-17-3P, Dansyl-D-tryptophan 77426-54-1P, Dansyl-D-valine 77426-55-2P, Dansyl-D-norvaline 77426-56-3P, Dansyl-D-norleucine 77426-58-5P 77481-08-4P, Dansyl-D-threonine 77481-09-5P, Dansyl-D-serine 77481-10-8P, Dansyl-D-methionine 95465-24-0P, Dansyl-D-glutamic acid 95465-25-1P, Dansyl-D-aspartic acid 99388-22-4P, Dansyl-D-leucine 162489-44-3P 162489-45-4P
RL: ANT (Analyte); PUR (Purification or recovery); ANST (Analytical study); PREP (Preparation)
(enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)
IT *849599-56-0*
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(enantiosepn. of dansylamino acids via capillary electrophoresis using mono(methylimidazolium)cyclodextrin chloride as chiral selector)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 80-4 (Organic Analytical Chemistry)
TI Synthesis and application of mono-6-(3-methylimidazolium)-6-deoxyperphenylcarbamoyl-β-cyclodextrin chloride as chiral stationary phases for high-performance liquid chromatography and supercritical fluid chromatography
ST methylimidazolium deoxyperphenylcarbamoyl cyclodextrin chiral phase HPLC arom alc enantiosepn; supercrit fluid chromatog methylimidazolium deoxyperphenylcarbamoyl cyclodextrin chloride chiral phase
IT Alcohols, analysis
RL: ANT (Analyte); ANST (Analytical study)
(aralkyl; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl-β-cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT HPLC stationary phases
(chiral; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl-β-cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT Resolution (separation)
(chromatog.; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl-β-cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT Supercritical fluid chromatography
(stationary phases; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl-β-cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT Chromatographic stationary phases
(supercrit. fluid; synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl-β-cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT 98-85-1, (±)-1-Phenylethanol 403-41-8, (±)-1-(4-Fluorophenyl)ethanol 1445-91-6, (-)-1-Phenylethanol 1517-69-7, (+)-1-Phenylethanol 3391-10-4, (±)-1-(4-Chlorophenyl)ethanol 5391-88-8, (±)-1-(4-Bromophenyl)ethanol 53207-29-7, (±)-1-(4-Iodophenyl)ethanol 60301-59-9 75968-40-0, (+)-1-(4-Chlorophenyl)ethanol 76155-78-7, (+)-1-(4-Bromophenyl)ethanol 99528-42-4, (-)-1-(4-Chlorophenyl)ethanol 100760-04-1, (-)-1-(4-Bromophenyl)ethanol 101219-68-5, (+)-1-(4-Fluorophenyl)ethanol 101219-73-2, (-)-1-(4-Fluorophenyl)ethanol 104013-25-4, (-)-1-(4-Iodophenyl)ethanol 113842-31-2 136185-86-9, (±)-1-(4-Fluorophenyl)-3-buten-1-ol 144486-12-4 186587-45-1 189107-38-8 215320-36-8 220089-24-7, (+)-1-(4-Iodophenyl)ethanol 221898-37-9 238091-03-7 255884-18-5 255884-19-6, (+)-1-(4-Fluorophenyl)-3-buten-1-ol 335022-72-5 879005-60-4, (-)-1-(4-Fluorophenyl)-3-buten-1-ol 1014975-81-5 1014975-82-6
RL: ANT (Analyte); ANST (Analytical study)
(synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl-β-cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT 1015048-23-3P
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(synthesis and application of mono(methylimidazolium)deoxyperphenylcarbamoyl-β-cyclodextrin chloride as chiral stationary phases for HPLC and supercrit. fluid chromatog.)
IT 103-71-9, Phenyl isocyanate, reactions *849599-56-0*,

Mono-6-(3-methylimidazolium)-6-deoxy-β-cyclodextrin chloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis and application of mono(methylimidazolium)deoxyperphenylcarb
amoyl-β-cyclodextrin chloride as chiral stationary phases for HPLC
and supercrit. fluid chromatog.)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 8 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
CC 80-4 (Organic Analytical Chemistry)
TI Synthesis of ammonium substituted β-cyclodextrins for
enantioseparation of anionic analytes
ST ammonium substituted cyclodextrin prepn anionic analyte enantiosepn
IT Carboxylic acids, analysis
RL: ANT (Analyte); ANST (Analytical study)
(analytes; synthesis of ammonium substituted β-cyclodextrins for
enantiosepn. of anionic analytes)
IT Amino acids, analysis
RL: ANT (Analyte); ANST (Analytical study)
(aromatic, dansyl, analytes; synthesis of ammonium substituted
β-cyclodextrins for enantiosepn. of anionic analytes)
IT Resolution (separation)
(electrophoretic; synthesis of ammonium substituted
β-cyclodextrins for enantiosepn. of anionic analytes by capillary
electrophoresis)
IT Capillary electrophoresis
(synthesis of ammonium substituted β-cyclodextrins for
enantiosepn. of anionic analytes by capillary electrophoresis)
IT 772-14-5, (-)-3-Phenylbutyric acid 772-15-6, (+)-3-Phenylbutyric acid
4593-90-2, (±)-3-Phenylbutyric acid 35021-12-6, L-Dansyl serine
35021-15-9, L-Dansyl norvaline 48196-47-0, DL-Dansyl serine
77426-55-2, D-Dansyl norvaline 77426-57-4, DL-Dansyl norvaline
77481-09-5, D-Dansyl serine
RL: ANT (Analyte); ANST (Analytical study)
(analyte; synthesis of ammonium substituted β-cyclodextrins for
enantiosepn. of anionic analytes)
IT 74-88-4, Methyl iodide, reactions 107-10-8, n-Propylamine, reactions
107-11-9, Allylamine 109-73-9, n-Butylamine, reactions 110-58-7,
n-Pentylamine 110-86-1, Pyridine, reactions 616-47-7,
1-Methylimidazole 1739-84-0, 1,2-Dimethylimidazole 4316-42-1,
1-Butylimidazole 21252-69-7, 1-Octylimidazole 67217-55-4 84346-54-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of ammonium substituted β-cyclodextrins for
enantiosepn. of anionic analytes)
IT 849599-49-1P 849599-52-6P 849599-55-9P *849599-56-0P*
849599-58-2P 849599-60-6P 849599-63-9P 849599-66-2P 849599-68-4P
849599-69-5P 849599-70-8P 849599-72-0P 849599-73-1P 849599-76-4P
849599-78-6P
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study);
PREP (Preparation); USES (Uses)
(synthesis of ammonium substituted β-cyclodextrins for
enantiosepn. of anionic analytes)
IT 849599-46-8P
RL: ARU (Analytical role, unclassified); NUU (Other use, unclassified);
PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study);
PREP (Preparation); USES (Uses)
(synthesis of ammonium substituted β-cyclodextrins for
enantiosepn. of anionic analytes by capillary electrophoresis)

ALL ANSWERS HAVE BEEN SCANNED

=> b reg
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 2.60 | 28.33

FILE 'REGISTRY' ENTERED AT 17:07:53 ON 20 AUG 2008
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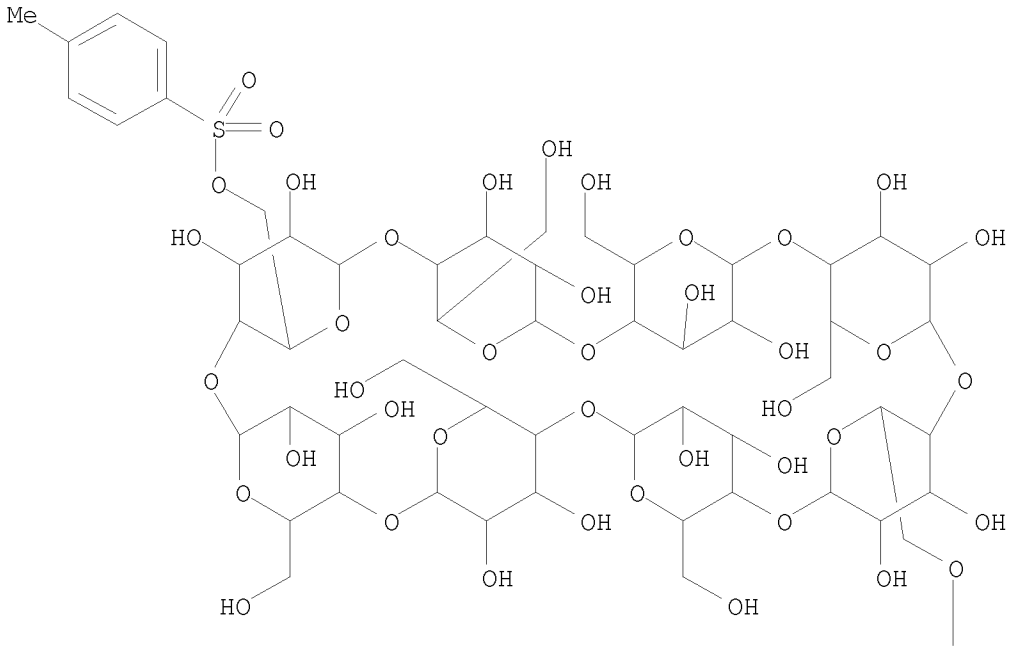
=> s cyclodextrin?/cns and tosyl?/cns
32679 CYCLODEXTRIN?/CNS
3688 TOSYL?/CNS
L5 18 CYCLODEXTRIN?/CNS AND TOSYL?/CNS

=> d l5 scan

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN γ-Cyclodextrin, 6A,6E-bis(4-methylbenzenesulfonate) (9CI)
MF C62 H92 O44 S2

PAGE 1-A



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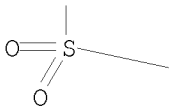

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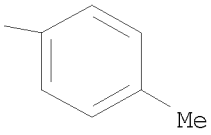
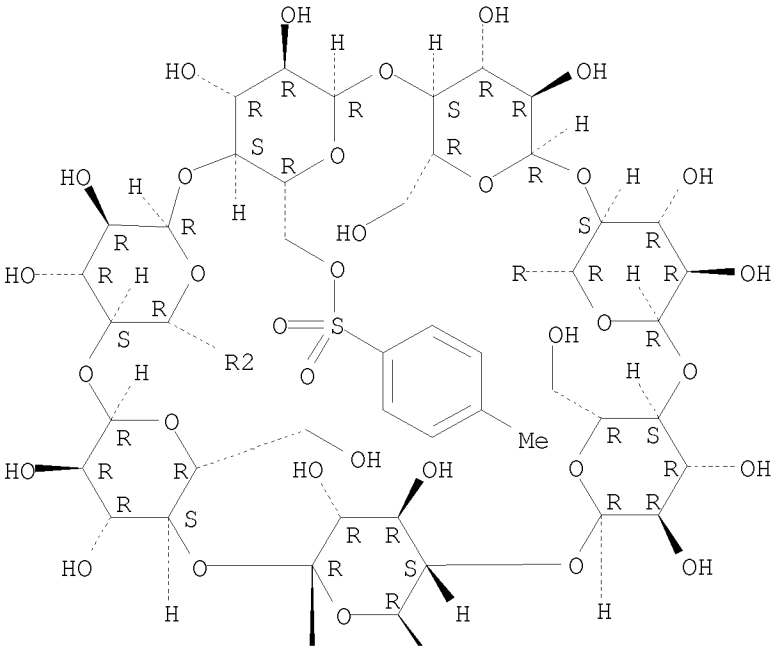


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN β-*Cyclodextrin, 6A,6B-bis(4-methylbenzenesulfonate)*
MF C56 H82 O39 S2
CI COM

Absolute stereochemistry.

PAGE 1-A



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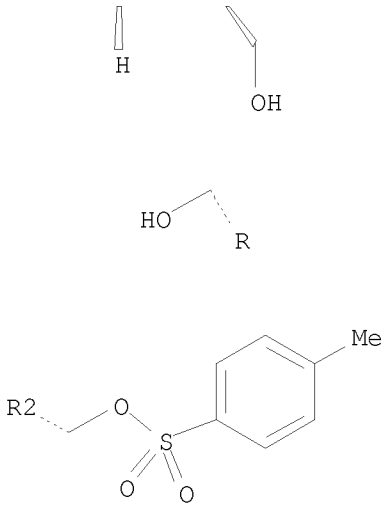


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

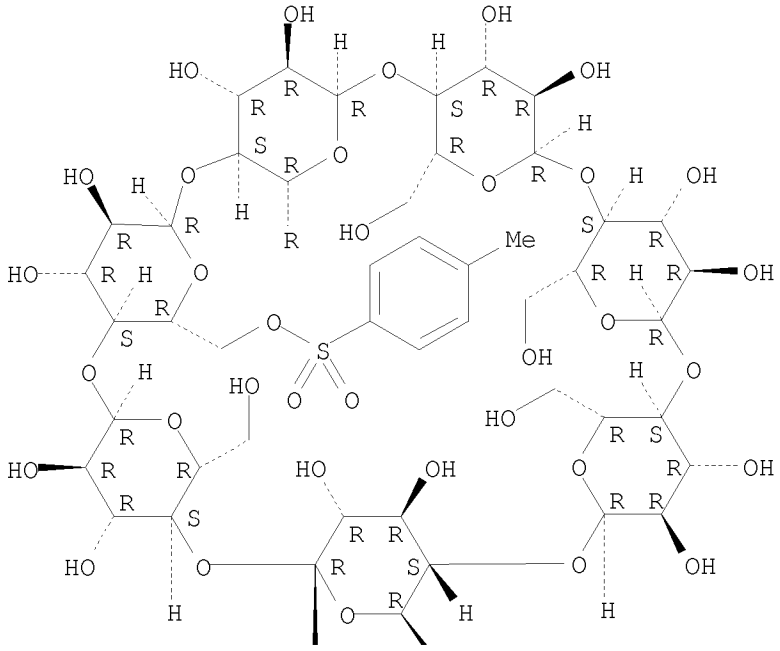
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN β-*Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-, 6B-(4-methylbenzenesulfonate), monosodium salt (9CI)*
MF C56 H81 N O38 S . Na

CI COM

Absolute stereochemistry.

PAGE 1-A



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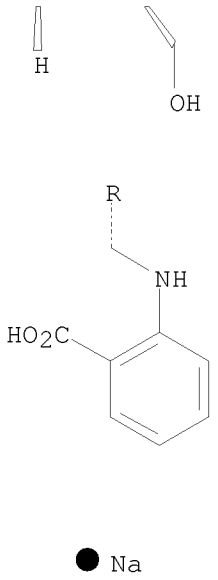
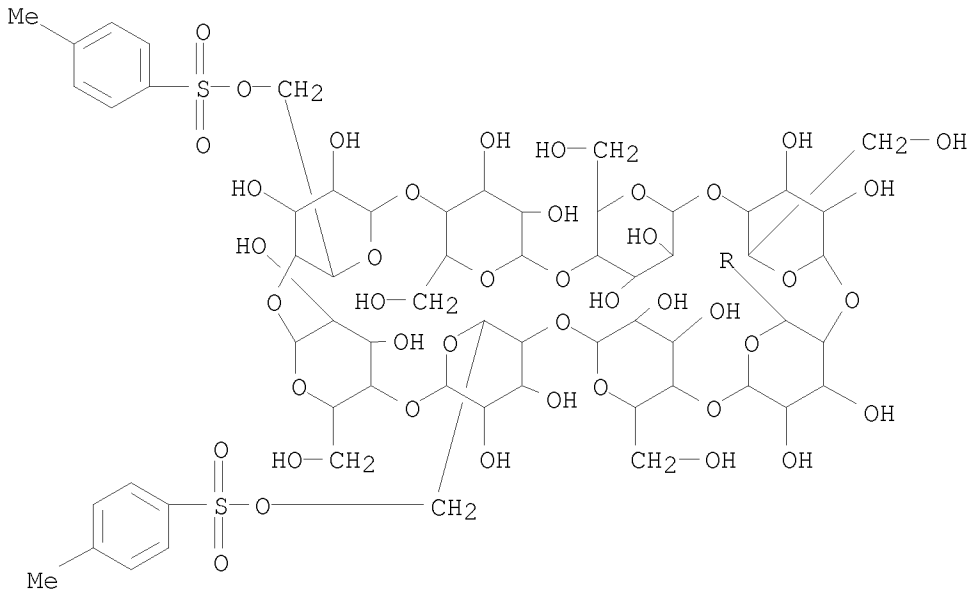


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L5 18 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN *γ-Cyclodextrin, 6A,6C-bis(4-methylbenzenesulfonate) (9CI)*

MF C62 H92 O44 S2

PAGE 1-A



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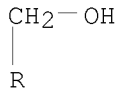

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

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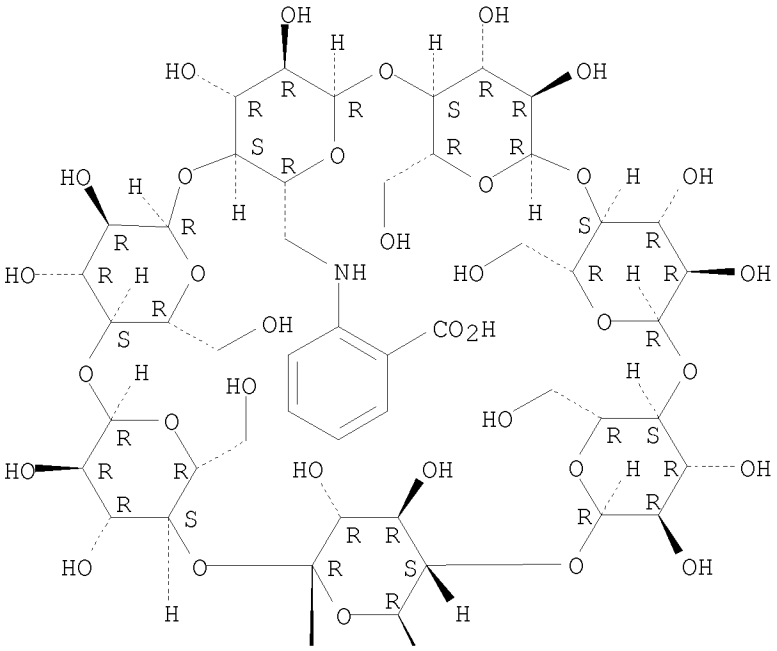
YOU HAVE REQUESTED DATA FROM 18 ANSWERS - CONTINUE? Y/(N):y

L5 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 680183-93-1 REGISTRY
ED Entered STN: 06 May 2004
CN β-*Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-, 6D-(4-methylbenzenesulfonate), monosodium salt (9CI)* (CA INDEX NAME)
OTHER NAMES:
CN *6A-Anthranilate-6D-O-p-tosyl-β-cyclodextrin*
FS STEREOSEARCH
MF C56 H81 N O38 S . Na
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT
CRN (679816-40-1)

Absolute stereochemistry.

PAGE 1-A



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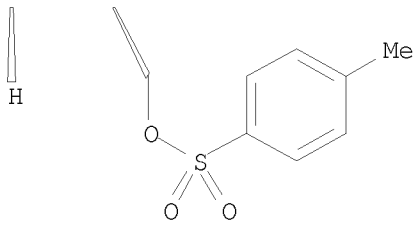


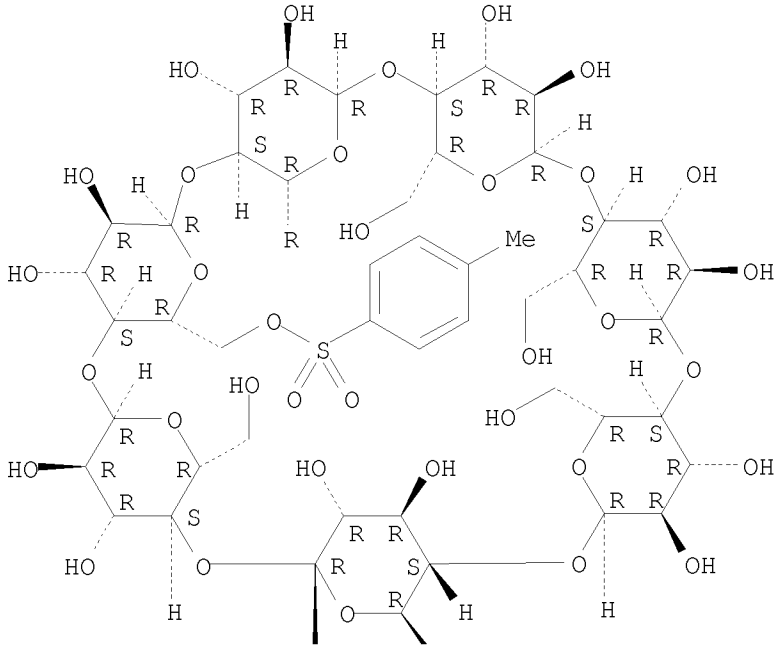
Na

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 2 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 680183-92-0 REGISTRY
ED Entered STN: 06 May 2004
CN β-*Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-, 6B-(4-methylbenzenesulfonate), monosodium salt (9CI)* (CA INDEX NAME)
OTHER NAMES:
CN *6A-Anthranilate-6B-O-p-tosyl-β-cyclodextrin*
FS STEREOSEARCH
MF C56 H81 N O38 S . Na
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT
CRN (679816-05-8)

Absolute stereochemistry.

PAGE 1-A



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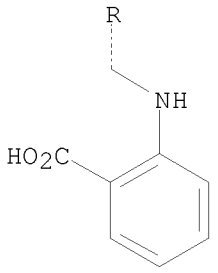


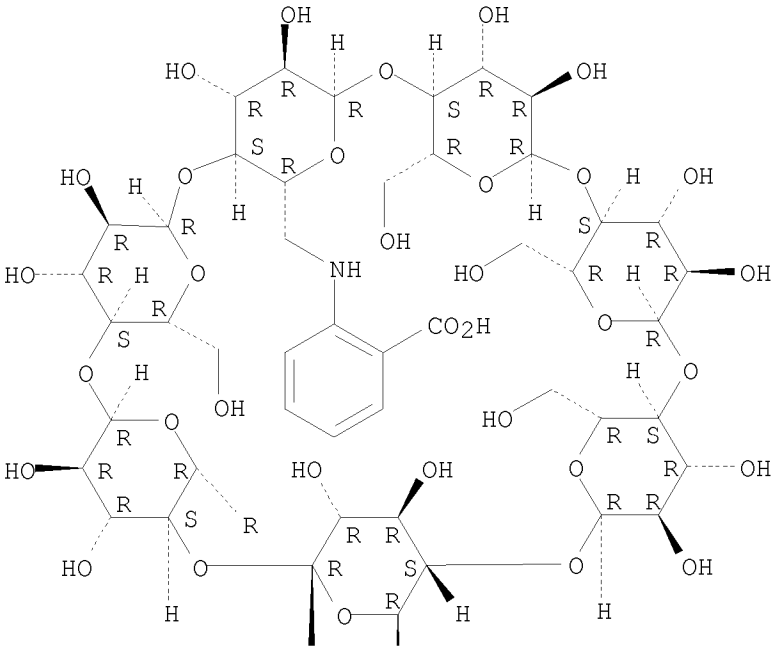
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 679816-23-0 REGISTRY
ED Entered STN: 05 May 2004

CN β-*Cyclodextrin, 6A-[(2-carboxyphenyl)amino]-6A-deoxy-, 6C-(4-methylbenzenesulfonate) (9CI)* (CA INDEX NAME)
OTHER NAMES:
CN *6A-Anthranilate-6C-O-p-tosyl-β-cyclodextrin*
FS STEREOSEARCH
MF C56 H81 N O38 S
CI COM
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

PAGE 1-A



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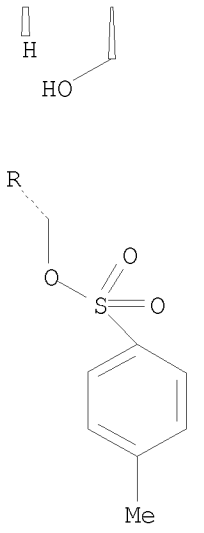
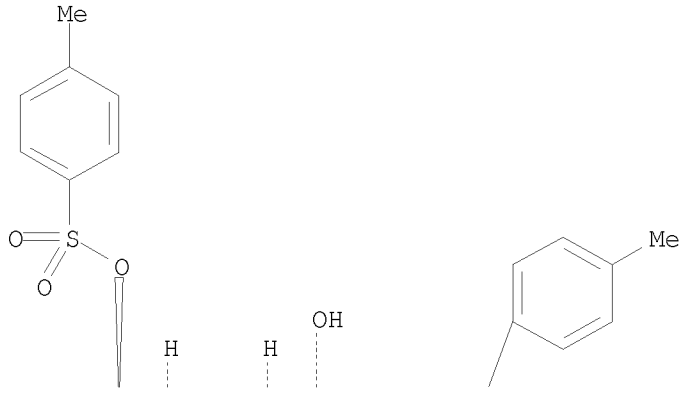


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

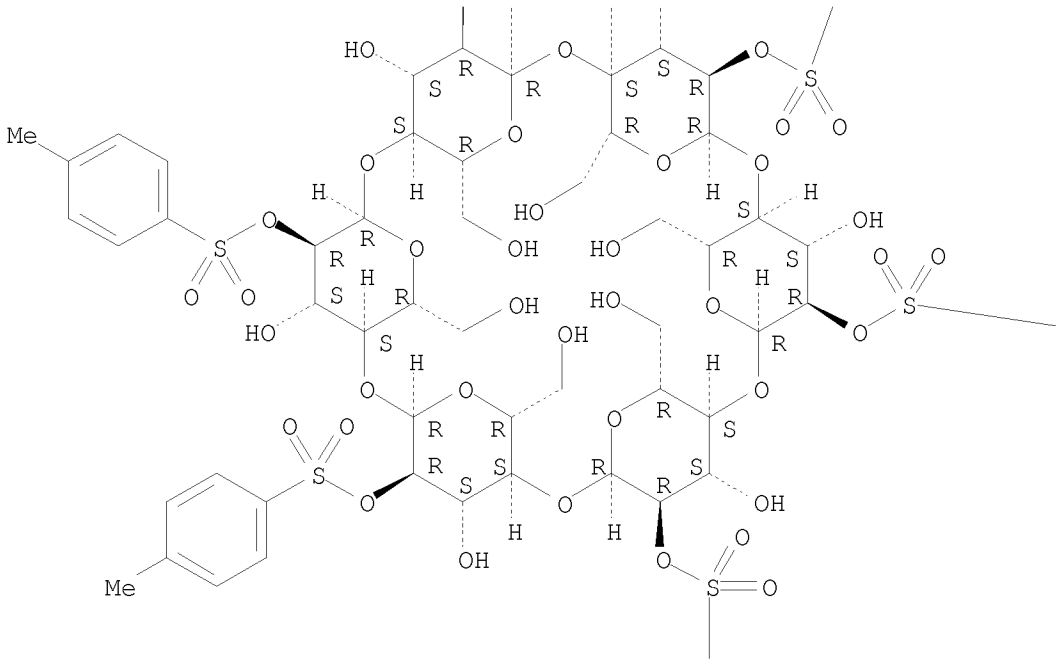
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 4 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 146469-71-8 REGISTRY
ED Entered STN: 16 Mar 1993
CN α-Cyclodextrin, 2A,2B,2C,2D,2E,2F-hexakis(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo[26.2.2.23,6.28,11.213,16.218,21.223,26]dotetracontane, α-cyclodextrin deriv.
OTHER NAMES:
CN Hexakis(2-O-tosyl)-α-cyclodextrin
FS STEREOSEARCH
MF C78 H96 O42 S6
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PAGE 2-A



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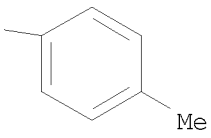

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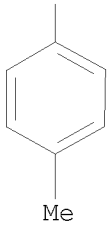


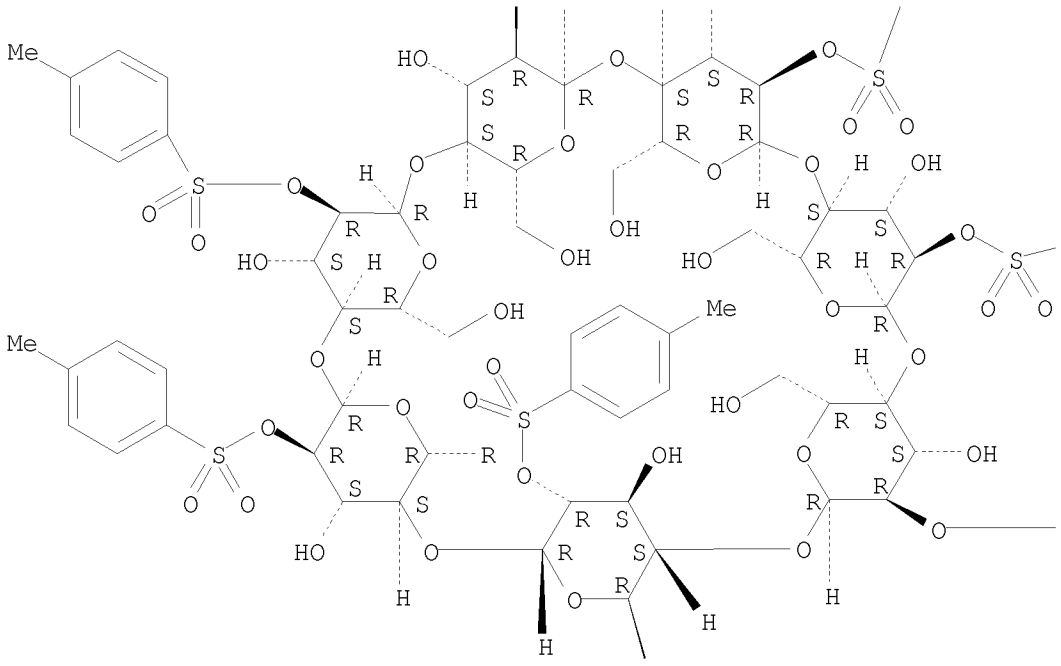
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 5 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 122566-69-2 REGISTRY
ED Entered STN: 08 Sep 1989
CN β-*Cyclodextrin, 2A,2B,2C,2D,2E,2F,2G-heptakis(4-methylbenzenesulfonate)* (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN *2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane,* β-*cyclodextrin deriv.*
OTHER NAMES:
CN *Heptakis(2-O-tosyl)*-β-*cyclodextrin*
FS STEREOSEARCH
DR 137147-03-6
MF C91 H112 O49 S7
CI COM
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.


Me


Me
Me
Me
HO
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OH
O
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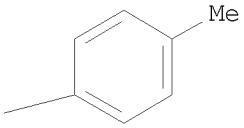
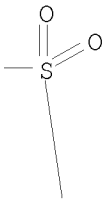
R
H

PAGE 2-B





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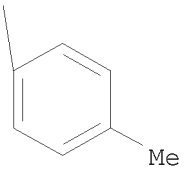
PAGE 3-B



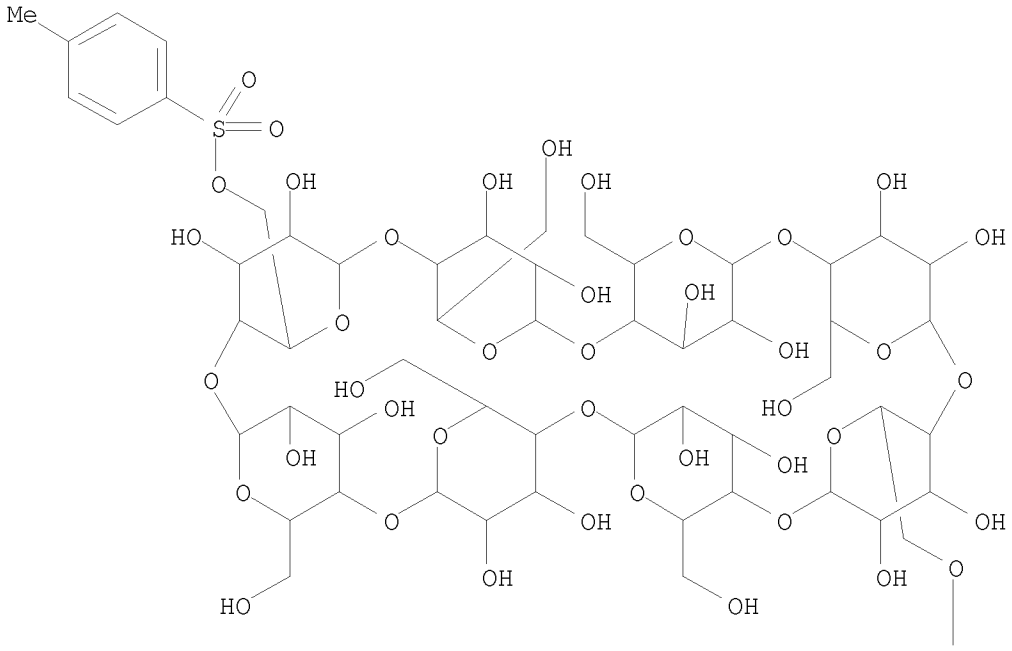
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 6 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN

RN 104901-63-5 REGISTRY
ED Entered STN: 25 Oct 1986
CN γ-Cyclodextrin, 6A,6E-bis(4-methylbenzenesulfonate) (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-Hexadecaoxanonacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane, γ-cyclodextrin deriv.
OTHER NAMES:
CN 6A,6E-Di(p-tosyl)-γ-cyclodextrin
FS STEREOSEARCH
MF C62 H92 O44 S2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

PAGE 1-A



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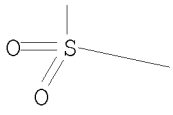
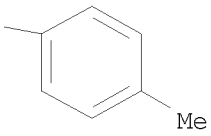
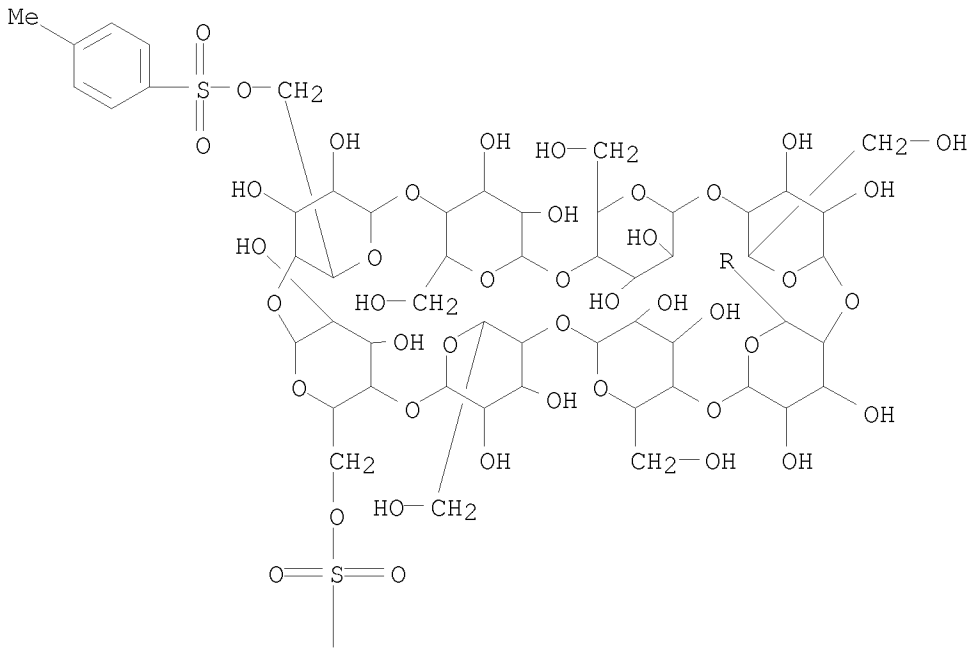
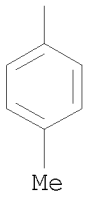


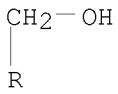


12 REFERENCES IN FILE CA (1907 TO DATE)
12 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 7 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 104901-62-4 REGISTRY
ED Entered STN: 25 Oct 1986
CN γ-Cyclodextrin, 6A,6B-bis(4-methylbenzenesulfonate) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-Hexadecaoxanonacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane, γ-cyclodextrin deriv.
OTHER NAMES:
CN 6A,6B-Di(p-tosyl)-γ-cyclodextrin
FS STEREOSEARCH
MF C62 H92 O44 S2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)







PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

13 REFERENCES IN FILE CA (1907 TO DATE)
13 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 8 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 104867-16-5 REGISTRY
ED Entered STN: 25 Oct 1986
CN γ-Cyclodextrin, 6A,6D-bis(4-methylbenzenesulfonate) (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-Hexadecaoxanonacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane, γ-cyclodextrin deriv.
OTHER NAMES:
CN 6A,6D-Di(p-tosyl)-γ-cyclodextrin
FS STEREOSEARCH
MF C62 H92 O44 S2
CI COM
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

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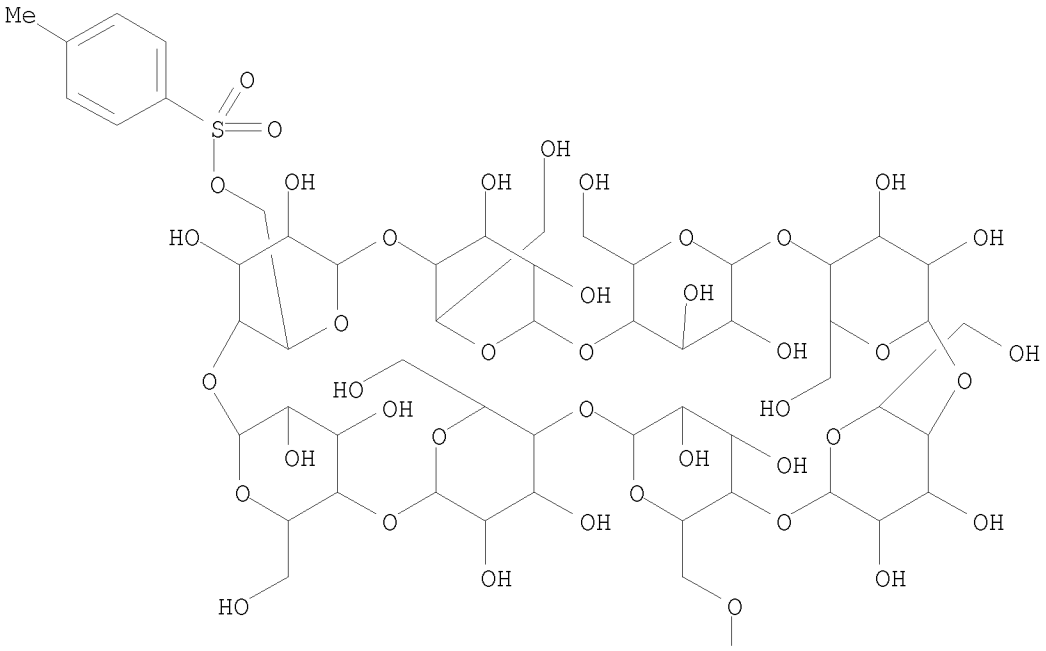

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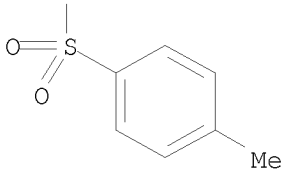

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 9 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 104867-15-4 REGISTRY
ED Entered STN: 25 Oct 1986
CN γ-Cyclodextrin, 6A,6C-bis(4-methylbenzenesulfonate) (9CI)
(CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-Hexadecaoxanonacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane, γ-cyclodextrin deriv.
OTHER NAMES:
CN 6A,6C-Di(p-tosyl)-γ-cyclodextrin
FS STEREOSEARCH
MF C62 H92 O44 S2
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT

(*File contains numerically searchable property data)

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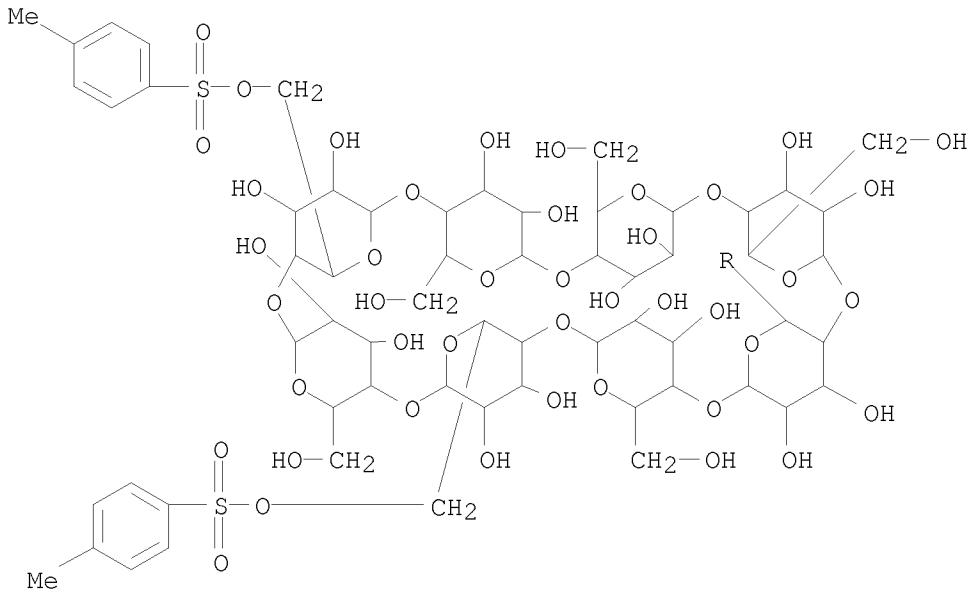

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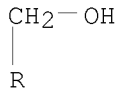

10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 10 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 97227-33-3 REGISTRY
ED Entered STN: 21 Jul 1985
CN γ-Cyclodextrin, 6A-(4-methylbenzenesulfonate) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-Hexadecaoxanonacyclo[36.2.2.23,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane, γ-cyclodextrin deriv.
OTHER NAMES:
CN γ-Cyclodextrin 6-monotosylate
CN 6-O-Tosyl-γ-cyclodextrin
CN Mono-6-(p-tolylsulfonyl)-γ-cyclodextrin
CN Mono-6-O-tosyl-γ-cyclodextrin
FS STEREOSEARCH
DR 500313-14-4
MF C55 H86 O42 S
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

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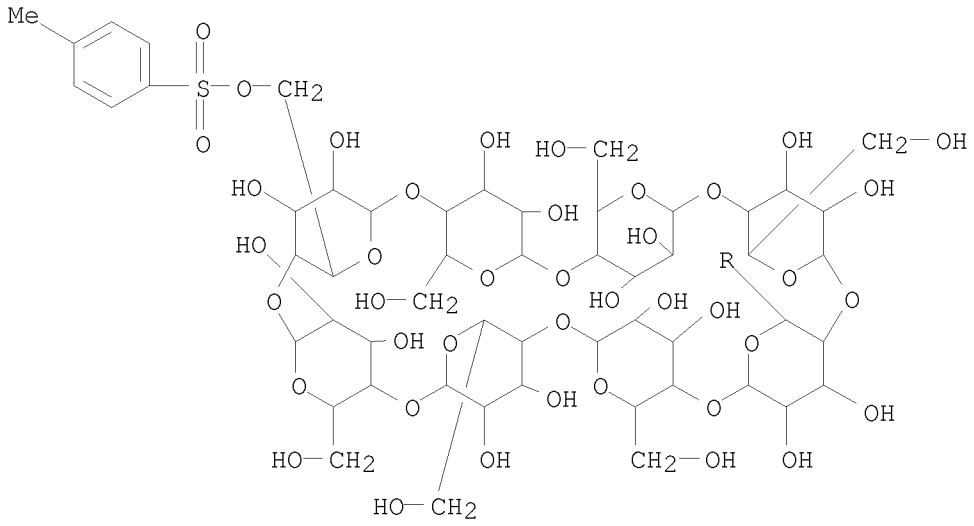

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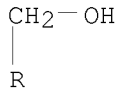


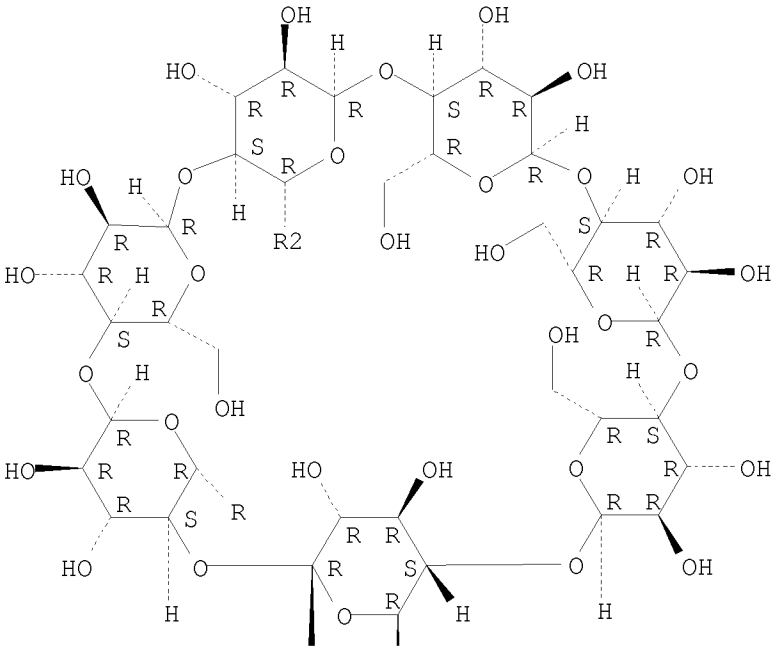
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
23 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 11 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 95509-72-1 REGISTRY
ED Entered STN: 23 Mar 1985
CN β-Cyclodextrin, 6A,6C-bis(4-methylbenzenesulfonate) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β-cyclodextrin deriv.
OTHER NAMES:
CN 6A,6C-Di(p-tosyl)-β-cyclodextrin
CN 6A,6C-Di-O-(p-tosyl)-β-cyclodextrin
FS STEREOSEARCH
DR 98853-89-5
MF C56 H82 O39 S2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



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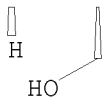
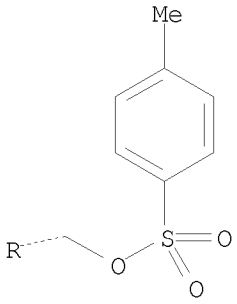
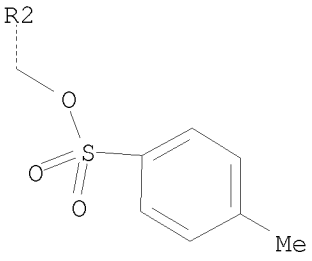






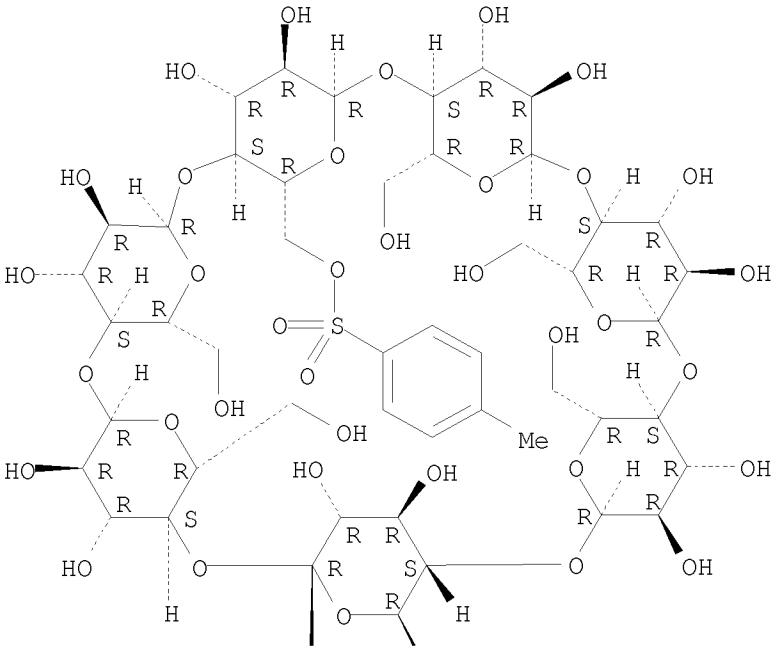
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1907 TO DATE)
18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 12 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 95475-65-3 REGISTRY
ED Entered STN: 23 Mar 1985
CN β-*Cyclodextrin, 6A,6D-bis(4-methylbenzenesulfonate)* (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN *2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane,* β-*cyclodextrin deriv.*
OTHER NAMES:
CN *6A,6D-Di(p-tosyl)*-β-*cyclodextrin*
CN *6A,6D-Di-O-(p-tosyl)*-β-*cyclodextrin*
FS STEREOSEARCH
MF C56 H82 O39 S2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



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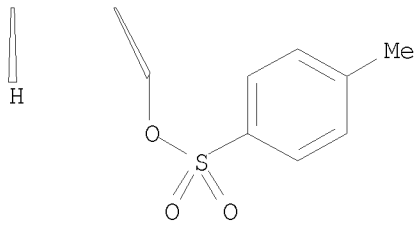


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

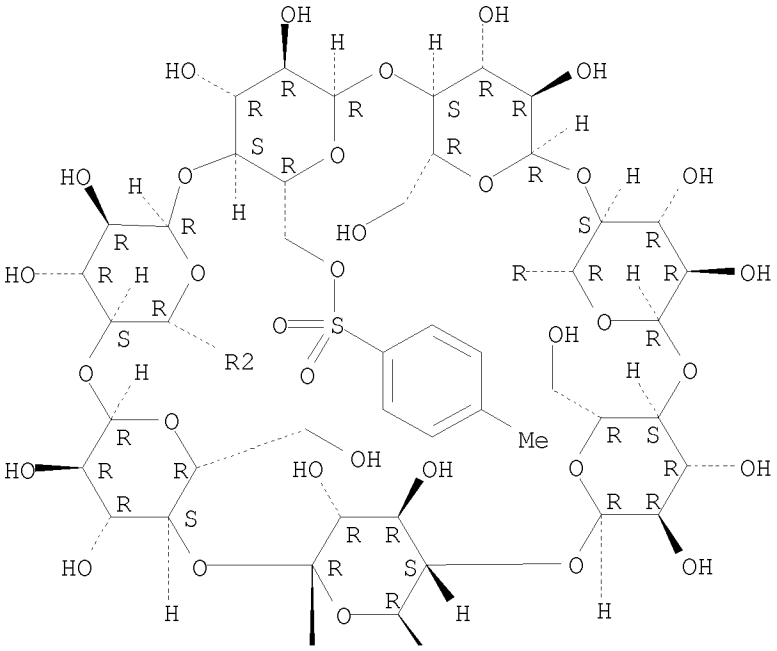
19 REFERENCES IN FILE CA (1907 TO DATE)
19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 13 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 95475-64-2 REGISTRY
ED Entered STN: 23 Mar 1985
CN β-Cyclodextrin, 6A,6B-bis(4-methylbenzenesulfonate) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β-cyclodextrin deriv.
OTHER NAMES:
CN 6A,6B-Di(p-tosyl)-β-cyclodextrin
CN 6A,6B-Di-O-(p-tosyl)-β-cyclodextrin
FS STEREOSEARCH
MF C56 H82 O39 S2

CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



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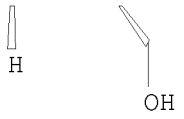

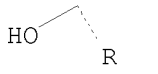

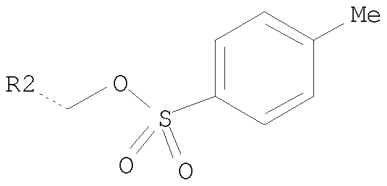

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 14 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 84216-71-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN β-*Cyclodextrin, 2A-(4-methylbenzenesulfonate)* (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN *2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β-cyclodextrin deriv.*
OTHER NAMES:
CN *Mono(2-O-tosyl)-β-cyclodextrin*
FS STEREOSEARCH
MF C49 H76 O37 S
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

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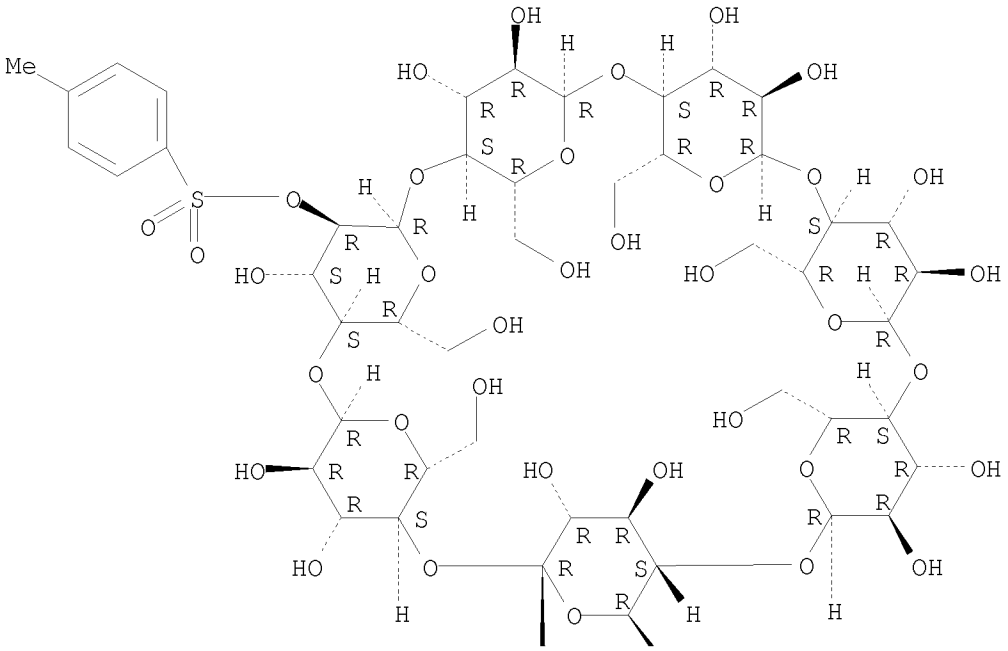

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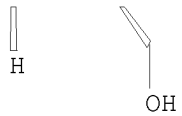
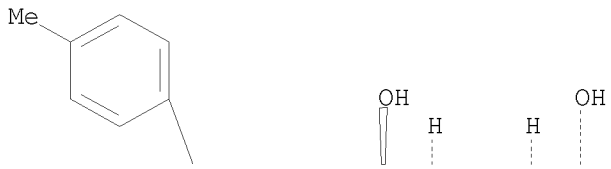


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

62 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
62 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 15 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 76859-40-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN β-Cyclodextrin, 3A-(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane, β-cyclodextrin deriv.
OTHER NAMES:
CN 3-O-(p-Tosyl)-β-cyclodextrin
CN 3-Tosyl-O-β-cyclodextrin
FS STEREOSEARCH
MF C49 H76 O37 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

Absolute stereochemistry.



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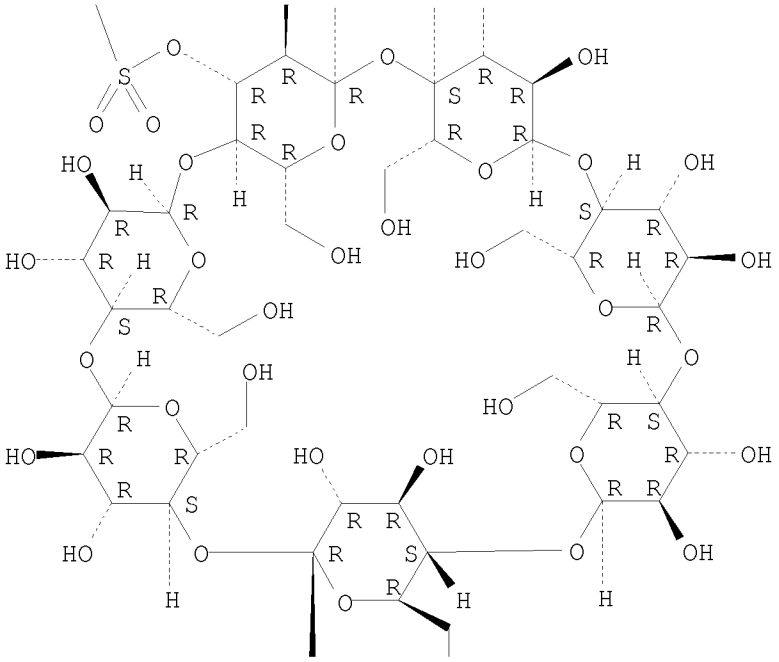


PAGE 3-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

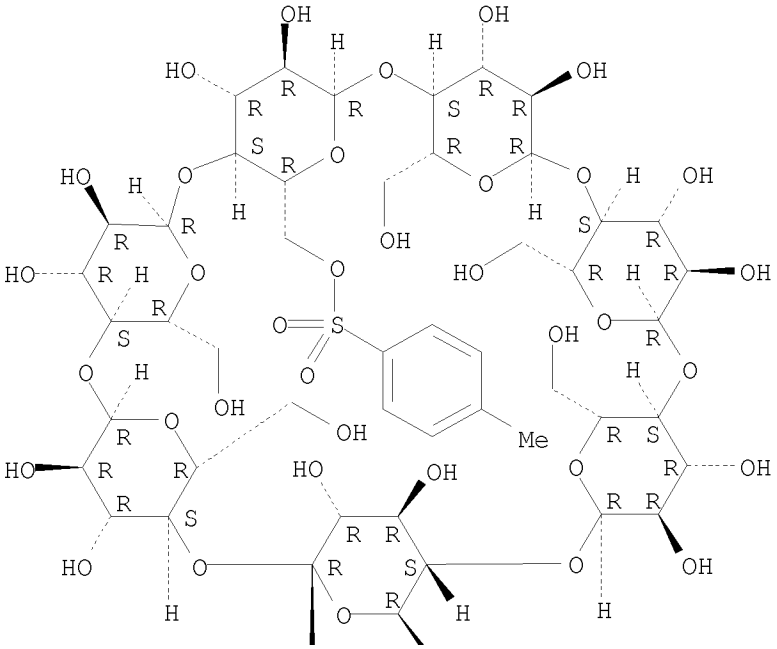
5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 16 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 67217-55-4 REGISTRY
ED Entered STN: 16 Nov 1984
CN β-*Cyclodextrin, 6A-(4-methylbenzenesulfonate)* (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN *2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28,11.213,16.218,21.223,26.228,31]nonatetracontane,* β-*cyclodextrin deriv.*
OTHER NAMES:
CN β-*Cyclodextrin 6-monotosylate*
CN β-*Cyclodextrin 6-tosylate*
CN 6-O-(p-Tolylsulfonyl)cyclomaltoheptaose
CN *6-O-(p-Tosyl)*-β-*cyclodextrin*
CN *6-O-Tosyl*-β-*cyclodextrin*
CN *Mono(6-O-p-tolylsulfonyl)*-β-*cyclodextrin*
CN *Mono-6-(p-tolylsulfonyl)*-β-*cyclodextrin*
CN *Mono-6-O-tosyl*-β-*cyclodextrin*

CN *Mono[6-O-(p-toluenesulfonyl)]-β-cyclodextrin*
FS STEREOSEARCH
DR 854929-93-4, 864380-56-3, 150507-43-0
MF C49 H76 O37 S
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



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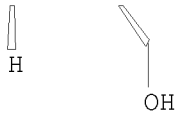

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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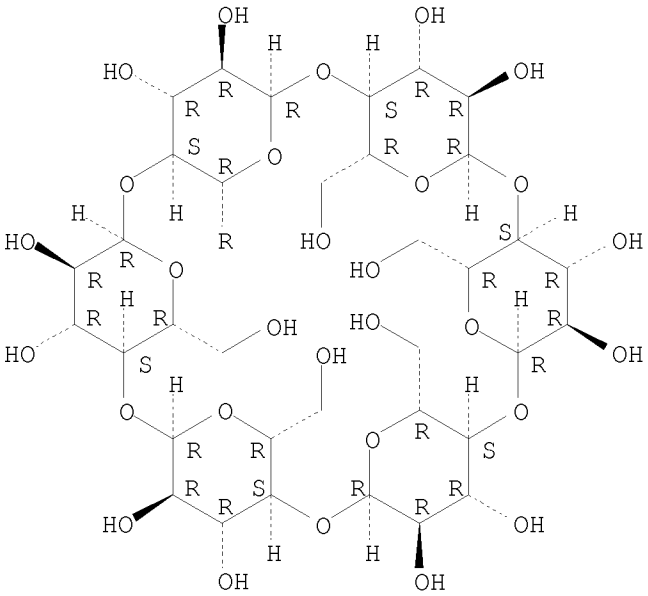
433 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 17 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 32860-56-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN *α-Cyclodextrin, 6A-(4-methylbenzenesulfonate)* (CA INDEX NAME)
OTHER CA INDEX NAMES:

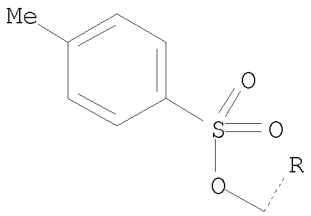
CN α-Cyclodextrin, 6-p-toluenesulfonate (8CI)
CN 2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo[26.2.2.23,6.28,11.213,16.218,21.223,26]dotetracontane, α-cyclodextrin deriv.
OTHER NAMES:
CN 6-O-Tosyl-α-cyclodextrin
FS STEREOSEARCH
MF C43 H66 O32 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



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36 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
37 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 18 OF 18 REGISTRY COPYRIGHT 2008 ACS on STN
RN 21884-25-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN α-Cyclodextrin, 6A,6B,6C,6D,6E,6F-hexakis(4-

methylbenzenesulfonate) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN α-*Cyclodextrin, 6,6',6'',6''',6'''',6'''''-hexa-p-toluenesulfonate (8CI)*

CN *2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo[26.2.2.23,6.28,11.213,16.218,21.223,26]dotetracontane,* α-*cyclodextrin deriv.*

OTHER NAMES:

CN α-*Cyclodextrin 6-tosylate*

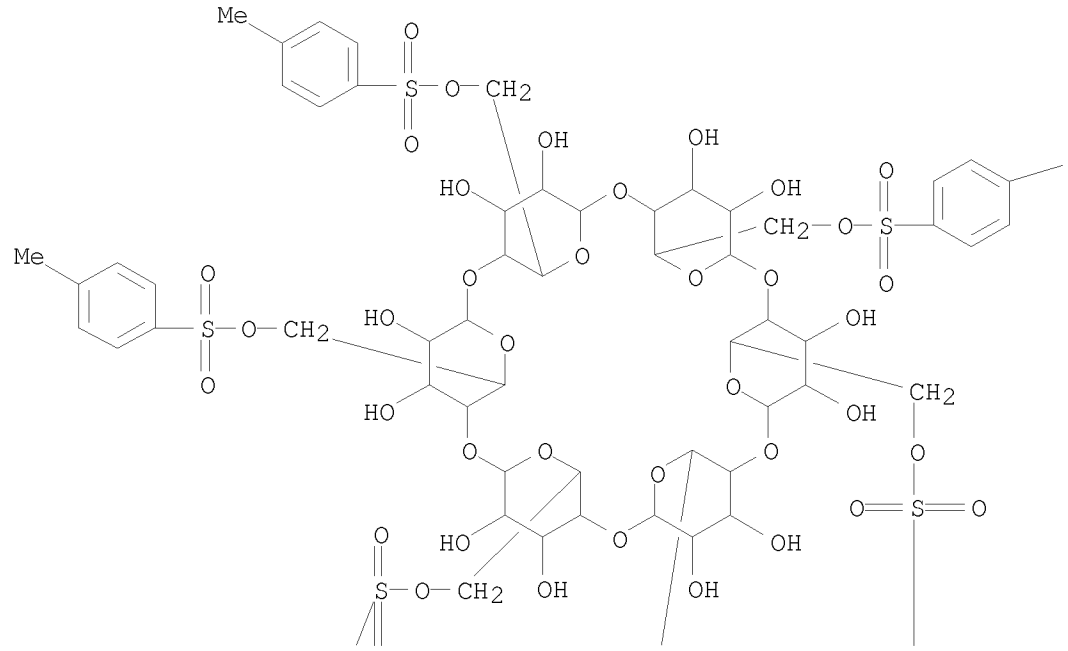
FS STEREOSEARCH

DR 32201-11-9

MF C78 H96 O42 S6

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
(*File contains numerically searchable property data)

PAGE 1-A



PAGE 1-B

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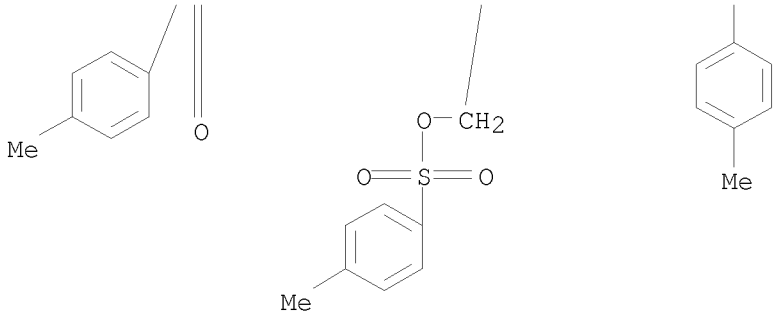

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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E2           24     METHYLIMIDAZOLATO/BI
E3         1233 --> METHYLIMIDAZOLE/BI
E4            2     METHYLIMIDAZOLEACETIC/BI
E5            1     METHYLIMIDAZOLECELLUL/BI
E6            1     METHYLIMIDAZOLECELLULOSE/BI
E7            1     METHYLIMIDAZOLEPROPION/BI
E8            1     METHYLIMIDAZOLEPROPIONAMIDE/BI
E9            1     METHYLIMIDAZOLETHIOL/BI
E10           2     METHYLIMIDAZOLI/BI
E11           1     METHYLIMIDAZOLID/BI
E12           2     METHYLIMIDAZOLIDI/BI

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E1            1     METHYLILLUKUMBIN A/CN
E2            1     METHYLILLUKUMBIN B/CN
E3            1 --> METHYLIMIDAZOLE/CN
E4            1     METHYLIMIDAZOLE HYDROCHLORIDE/CN
E5            1     METHYLIMIDAZOLIUM PICRATE/CN
E6            1     METHYLIMIDE/CN
E7            1     METHYLIMIDOBIS(THIOPHOSPHORYL) CHLORIDE/CN
E8            1     METHYLIMIDODIACETIC ACID/CN
E9            1     METHYLIMIDODIPHOSPHORUS TETRACHLORIDE/CN
E10           1     METHYLIMIDODIPHOSPHORYL CHLORIDE/CN
E11           1     METHYLIMIDOGEN/CN
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L6            1 METHYLIMIDAZOLE/CN

=> d l6 scan

L6   1 ANSWERS   REGISTRY  COPYRIGHT 2008 ACS on STN
IN   1H-Imidazole, methyl-
MF   C4 H6 N2
CI   IDS, COM
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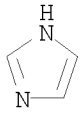
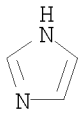


D1—Me

ALL ANSWERS HAVE BEEN SCANNED

=> d l6

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 30346-87-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Imidazole, methyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Imidazole, methyl- (7CI, 8CI)
OTHER NAMES:
CN *Methylimidazole*
MF C4 H6 N2
CI IDS, COM
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CIN, EMBASE, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL, USPATOLD



D1—Me

184 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
186 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	54.83	83.16

FILE 'CAPLUS' ENTERED AT 17:09:43 ON 20 AUG 2008

FILE COVERS 1907 - 20 Aug 2008 VOL 149 ISS 8
FILE LAST UPDATED: 19 Aug 2008 (20080819/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/legal/infopolicy.html

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     (FILE 'HOME' ENTERED AT 17:05:35 ON 20 AUG 2008)

     FILE 'REGISTRY' ENTERED AT 17:05:57 ON 20 AUG 2008
L1            2 S CYCLODEXTRIN?/CNS AND METHYLIMIDAZO?/CNS

     FILE 'REGISTRY' ENTERED AT 17:06:49 ON 20 AUG 2008
L2            2 S L1

     FILE 'CAPLUS' ENTERED AT 17:07:04 ON 20 AUG 2008
L3            8 S L1
L4            0 S L1 AND PY<=2003

     FILE 'REGISTRY' ENTERED AT 17:07:53 ON 20 AUG 2008
L5           18 S CYCLODEXTRIN?/CNS AND TOSYL?/CNS
                E METHYLIMIDAZOLE
                E METHYLIMIDAZOLE/CN
L6            1 S E3

     FILE 'CAPLUS' ENTERED AT 17:09:43 ON 20 AUG 2008

=> s l5 and l6
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           186 L6
L7           0 L5 AND L6

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L10 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:752349 CAPLUS
DOCUMENT NUMBER: 137:287703
TITLE: Cyclodextrin composition for preparing substances having nano-pores
INVENTOR(S): Yim, Jin Heong; Mah, Sang Kook; Lyu, Yi Yeol; Nah, Eun Ju
PATENT ASSIGNEE(S): Samsung Electronics Co., Ltd., S. Korea
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1245628	A1	20021002	EP 2001-309616	20011114 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002293989	A	20021009	JP 2002-16754	20020125 <--
JP 4090244	B2	20080528		
KR 2002075720	A	20021005	KR 2002-14259	20020316 <--
PRIORITY APPLN. INFO.:			KR 2001-15883 A	20010327

OTHER SOURCE(S): MARPAT 137:287703
AB The present invention provides a composition for preparing substances having nano-pores, said composition comprising cyclodextrin derivative as porogens, thermostable organic or inorg. matrix precursor, and solvent for dissolving said two solid components. There is also provided a low-k interlayer insulating film having evenly distributed nano-pores with a diameter less than 50 Å, which is required for semiconductor devices. Thus, hydrosilylating 2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane with trichlorosilane, followed by reacting the resulting derivative with MeOH gave 2,4,6,8-tetramethyl-2,4,6,8-tetra(trimethoxysilylethyl)cyclotetrasiloxane, which was ring-opening polymerized to give a polysiloxane (I). Mixing 12% a purified I with 10.0% heptakis(2,4,6-tri-O-methyl)-β-cyclodextrin in MIBK, spin coating the resulting mixture on a boron-doped Si wafer, baking at 150° and at 250° for 1 min each and calcining at 420° for 60 min gave a dielec. film with thickness 5909 Å and dielec. constant 2.25.
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

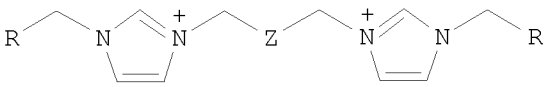
L10 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:537097 CAPLUS
DOCUMENT NUMBER: 137:295212
TITLE: Synthesis of new carnosine derivatives of β-cyclodextrin and their hydroxyl radical scavenger ability
AUTHOR(S): La Mendola, Diego; Sortino, Salvatore; Vecchio, Graziella; Rizzarelli, Enrico
CORPORATE SOURCE: Dipartimento di Scienze Chimiche, Universita di Catania, Catania, I-95125, Italy
SOURCE: Helvetica Chimica Acta (*2002*), 85(6), 1633-1643

CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:295212
AB Several in vitro and in vivo studies have suggested that carnosine can act as a scavenger of reactive oxygen species and intracellular proton buffer. On the other hand, carnosinase is a specific peptidase able to destroy the biol. active dipeptide. To overcome this constraint, β-cyclodextrin (β-CD) was functionalized with carnosine to give the following new compds.: 6A-[(3-{[(1S)-1-carboxy-2-(1H-*imidazol*-4-yl)ethyl]amino}-3-oxopropyl)amino]-6A-deoxy-β-cyclodextrin (1), 6A-[(β-alanyl-L-histidyl)amino]-β-cyclodextrin (2), and (2AS,3AR)-3A-[(3-{[(1S)-1-carboxy-2-(1H-*imidazol*-4-yl)ethyl]amino}-3-oxopropyl)amino]-3A-deoxy-β-cyclodextrin (3). Pulse-radiolysis investigation showed that the β-CD derivs. 1-3 are excellent scavengers of OH· radicals. Their activity is not only due to the formation of the stable *imidazole*-centered radical, but also to the scavenger ability of the glucose moieties of the macrocycle. This effect is independent of the disposition of the *imidazole* ring. In fact, the quenching constant values are similar for the three compds.
REFERENCE COUNT: 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:154355 CAPLUS
DOCUMENT NUMBER: 136:369923
TITLE: 6A-O-p-toluenesulfonyl-β-cyclodextrin
AUTHOR(S): Byun, Hoe-Sup; Zhong, Ning; Bittman, Robert
CORPORATE SOURCE: USA
SOURCE: Organic Syntheses (*2000*), 77, 225-230
CODEN: ORSYAT; ISSN: 0078-6209
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:369923
AB 6A-O-p-toluenesulfonyl-β-cyclodextrin was prepared in one step by regioselective tosylation of β-cyclodextrin with 1-(p-toluenesulfonyl)*imidazole* in 90 yield.
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:477262 CAPLUS
DOCUMENT NUMBER: 131:213872
TITLE: Syntheses of *imidazolium*-bridged cyclodextrin dimers and their catalytic properties in the hydrolytic cleavage of p-nitrophenyl alkanoates
AUTHOR(S): Luo, Mei-Ming; Xie, Ru-Gang; Yuan, De-Qi; Lu, Wei; Xia, Ping-Fang; Zhao, Hua-Ming
CORPORATE SOURCE: Department of Chemistry, Sichuan University, Chengdu, 610064, Peop. Rep. China
SOURCE: Chinese Journal of Chemistry (*1999*), 17(4), 384-390
CODEN: CJOCEV; ISSN: 1001-604X
PUBLISHER: Science Press
DOCUMENT TYPE: Journal
LANGUAGE: English

GI



@2Br⁻ I

AB Two *imidazolium*-bridged cyclodextrin (CD) dimers I (R = β-cyclodextrin-6-yl; Z = p- and m-C6H4) were prepared by reacting 6-deoxy-6-N-*imidazolyl*-β-CD (II) with p- and m-(BrCH2)2C6H4, resp. The catalytic properties of I and II in the hydrolytic cleavage of p-O2NC6H4O2CR1 (III; R1 = Me, Pr, n-C5H11, n-C7H15) were examined CD dimers showed middling rate enhancements around neutrality. Catalytic rate consts. (kc) in the presence of I did not vary much with R1. In contrast, dissociation consts. (Kd) and selectivity factors (kc/Kd) for long-chain esters were much smaller and significantly larger than those for short-chain ones resp., indicating that I have good dimensional-recognition ability and substrate selectivity in the hydrolytic cleavage of III. Their kinetic consequences are briefly interpreted.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:27838 CAPLUS
DOCUMENT NUMBER: 130:97110
TITLE: Activated mono-, di-, oligo- and polysaccharides, reaction products thereof, their preparation and uses
INVENTOR(S): Robyt, John F.; Mukerjea, Rupendra
PATENT ASSIGNEE(S): Iowa State University Research Foundation, Inc., USA
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858940	A1	19981230	WO 1998-US12767	19980619 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5900478	A	19990504	US 1997-880152	19970620 <--
US 6031085	A	20000229	US 1998-58888	19980413 <--
US 6096882	A	20000801	US 1998-58887	19980413 <--
AU 9880742	A	19990104	AU 1998-80742	19980619 <--

PRIORITY APPLN. INFO.: US 1997-880152 A 19970620
WO 1998-US12767 W 19980619

AB Reaction at the interface of an organic solution containing an acidic reactant and

an aqueous alkaline solution containing nonreducing carbohydrates such as sucrose, sugar alcs., cyclodextrins, and polysaccharides imparts a specificity to the reaction for one or more of the primary alc. groups of the carbohydrate reactant. The resulting activated, nonreducing carbohydrate intermediate can then be converted to a series of substantially pure, low mol. weight reaction products, including a sucrose trimer and dianhydrosucrose, and to a series of substantially pure, higher mol. weight reaction products, including 6-O-sucro cyclodextrins and poly-6-O-sucro amylose. Thus, 12.3 g tosyl chloride in toluene was added over 30 min at 22° to an alkaline solution containing 10 g sucrose to give 6,6'-di-O-tosyl sucrose, which (2 g) in MeOH containing 350 mg sodium methoxide was refluxed 24 h to give crystalline 3,6;3',6'-dianhydrosucrose.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:316602 CAPLUS
DOCUMENT NUMBER: 129:54503
ORIGINAL REFERENCE NO.: 129:11365a,11368a
TITLE: Efficient regioselective synthesis of mono-2-O-sulfonyl-cyclodextrins by the combination of sulfonyl *imidazole* and molecular sieves
AUTHOR(S): Teranishi, Katsunori; Watanabe, Kayo; Hisamatsu, Makoto; Yamada, Tetsuya
CORPORATE SOURCE: Faculty of Bioresources, Mei University, Tsu, Mie, 514, Japan
SOURCE: Journal of Carbohydrate Chemistry (*1998*), 17(3), 489-494
CODEN: JCACDM; ISSN: 0732-8303
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:54503
AB Regioselective sulfonylation of cyclodextrins with sulfonyl *imidazole* and mol. sieves is reported.
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1997:706280 CAPLUS
DOCUMENT NUMBER: 127:359006
ORIGINAL REFERENCE NO.: 127:70287a,70290a
TITLE: Synthesis and properties of *phenylenebisbenzimidazole* capped β-cyclodextrins
AUTHOR(S): Yuan, De-Qi; Koga, Kazutaka; Fujita, Kahee; Yamaguchi, Masatoshi
CORPORATE SOURCE: Faculty of Pharmaceutical Sciences, Nagasaki University, Nagasaki, 852, Japan
SOURCE: Tetrahedron Letters (*1997*), 38(43), 7593-7596
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Novel capped β-cyclodextrins were synthesized by reaction of 6A,6C (or 6A,6D)-bis-O-tosyl substituted β-cyclodextrins with

o-phenylenediamine and subsequent cyclocondensation with iso-phthalaldehyde 4. Their highly resolved NMR spectra and binding property are also described.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:536959 CAPLUS
DOCUMENT NUMBER: 127:173486
ORIGINAL REFERENCE NO.: 127:33525a,33528a
TITLE: Polymeric fluorophores enhanced by moieties providing a hydrophobic and conformationally restrictive microenvironment
INVENTOR(S): Bieniarz, Christopher; Huff, Jeffrey B.; Cornwell, Michael J.; Tata Venkata, Seshagiri R.
PATENT ASSIGNEE(S): Abbott Laboratories, USA
SOURCE: PCT Int. Appl., 111 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9728447	A1	19970807	WO 1997-US1429	19970130 <--
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5994143	A	19991130	US 1996-595092	19960201 <--
CA 2244768	A1	19970807	CA 1997-2244768	19970130 <--
CA 2244768	C	20060418		
EP 1019722	A1	20000719	EP 1997-904060	19970130 <--
EP 1019722	B1	20030409		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 2000509412	T	20000725	JP 1997-527793	19970130 <--
AT 237138	T	20030415	AT 1997-904060	19970130 <--
ES 2197332	T3	20040101	ES 1997-904060	19970130

PRIORITY APPLN. INFO.: US 1996-595092 A 19960201
WO 1997-US1429 W 19970130

OTHER SOURCE(S): MARPAT 127:173486

AB Fluorescent conjugates are disclosed that are suitable for use in flow cytometry and other biol. applications. The fluorescent conjugates comprise an antibody having a polymeric dye bound thereto. The polymeric dye is preferably enhanced by a hydrophobic and conformationally restrictive moiety either bound thereto or in close association therewith. The hydrophobic and conformationally restrictive moiety is preferably derived from a cyclodextrin. The polymeric dye comprises a polymeric entity having signal-generating groups, such as aminostyryl pyridinium dye residues attached thereto. The fluorescent conjugates exhibit exceptional stability characteristics and avoid many of the problems of energy transfer, bio-conjugability, and solubility

L10 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:545478 CAPLUS
DOCUMENT NUMBER: 123:144423
ORIGINAL REFERENCE NO.: 123:25749a,25752a
TITLE: Design and synthesis of cyclodextrin dimers with two *imidazolium* residues as catalytic site
AUTHOR(S): Guo, Sheng Jin; Luo, Mei Ming; Gu, Xiao Rong; Xie, Ru

Gang; Zhao, Hua Ming
CORPORATE SOURCE: Dep. Chem., Sichuan Univ., Chengdu, 610064, Peop. Rep. China
SOURCE: Chinese Chemical Letters (*1995*), 6(4), 293-6
CODEN: CCLEE7
PUBLISHER: Chinese Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Reaction of 6-deoxy-6-(N-*imidazolyl*)-β-cyclodextrin with α,α'-dibromoxylene afforded cyclodextrin dimer with two *imidazolium* residues as catalytic site and two cyclodextrin cavities as binding site.

L10 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:499735 CAPLUS
DOCUMENT NUMBER: 113:99735
ORIGINAL REFERENCE NO.: 113:16849a,16852a
TITLE: Manufacture of cyclodextain derivatives
INVENTOR(S): Iwata, Kazunori; Moriguchi, Soyao
PATENT ASSIGNEE(S): Showa Denko K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01319502	A	19891225	JP 1988-153157	19880621 <--

PRIORITY APPLN. INFO.: JP 1988-153157 19880621
AB Cyclodextrins bearing NHC(COOH)HR groups [R = H, (hydroxy)alkyl, amino, COOH, carbamoyl, SH, MeS or its guanidino derivs., (p-hydroxy)benzyl, 3-indolylmethyl, 4-*imidazolylmethyl*] on C-2 or C-3, useful in isolating optically active substances, are prepared by sulfonylating cyclodextrins, displacing the sulfonate groups with amino acids or NaI, and carrying out further reactions. Thus, β-cyclodextrin was sulfonated with m-nitrophenyl p-toluenesulfonate and the ester was treated with L-phenylalanine to give mono[(S)-[1-carboxy-2-phenylethyl)amino]-2-deoxy]-β-cyclodextrin.

L10 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:231794 CAPLUS
DOCUMENT NUMBER: 112:231794
ORIGINAL REFERENCE NO.: 112:38995a,38998a
TITLE: Artificial enzymes: synthesis of *imidazole* substituted at C-2 of β-cyclodextrin as an efficient enzyme model of chymotrypsin
AUTHOR(S): Rao, K. Rama; Srinivasan, T. N.; Bhanumathi, N.; Sattur, P. B.
CORPORATE SOURCE: Indian Inst. Chem. Technol., Hyderabad, 500 007, India
SOURCE: Journal of the Chemical Society, Chemical Communications (*1990*), (1), 10-11
CODEN: JCCCAT; ISSN: 0022-4936
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:231794
AB *Imidazole* has been attached at C(2) on the more open face of β-cyclodextrin to mimic the enzyme chymotrypsin; this chemical model is

shown to be catalytically far superior to that with an *imidazole* on the primary side [C(6)] of cyclodextrin.

L10 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1989:529801 CAPLUS
DOCUMENT NUMBER: 111:129801
ORIGINAL REFERENCE NO.: 111:21642h,21643a
TITLE: *Imidazole* derivatives of cyclodextrins as chymotrypsin analogs
INVENTOR(S): Bender, Myron L.; D'Souza, Valerian T.
PATENT ASSIGNEE(S): Northwestern University, USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4777250	A	19881011	US 1986-876278	19860619 <--

PRIORITY APPLN. INFO.: US 1986-876278 19860619
OTHER SOURCE(S): CASREACT 111:129801; MARPAT 111:129801
GI For diagram(s), see printed CA Issue.
AB *Imidazole* derivs. of cyclodextrins (I; D = α,β,γ-cyclodextrin; P = X, (CH2)nX where n = 0-2, X = S, NH, O; Q = substituted Ph with o-carboxyl group, (CH2)n where n = 0-3; R = H, Me, Et) function as chymotrypsin analogs. The analog 3A-S-[[2-(2-carboxyphenyl)-5-methyl-1H-*imidazol*-4-yl]methyl]-3A-thio-β-cyclodextrin was synthesized. At its optimum pH of 10.7, its kca-t, Km, and kca-t/Km were 2.8 + 102, 13.3 + 105, and 210, resp. The corresponding values for chymotrypsin (at pH 8.0) were 1.1 + 102, 4.0 + 105, and 275, resp.

L10 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:56475 CAPLUS
DOCUMENT NUMBER: 108:56475
ORIGINAL REFERENCE NO.: 108:9449a,9452a
TITLE: Catalytic activity of β-cyclodextrin-histamine
AUTHOR(S): Ikeda, Tsukasa; Kojin, Ryoichi; Yoon, Chul Joong; Ikeda, Hiroshi; Iijima, Masao; Toda, Fujio
CORPORATE SOURCE: Fac. Eng., Tokyo Inst. Technol., Tokyo, 152, Japan
SOURCE: Journal of Inclusion Phenomena (*1987*), 5(1), 93-8
CODEN: JOIPDF; ISSN: 0167-7861
DOCUMENT TYPE: Journal
LANGUAGE: English
AB β-Cyclodextrin (β-CD) was modified by a histamine group to make a model of α-chymotrypsin. Enzymic turnover reaction was realized with β-CD-histamine at around neutral pH value. Compared with amino-β-CD, the catalytic activity of β-CD-histamine was caused by the *imidazole* group. Using several substrates in the hydrolytic reactions, it was shown that β-CD-histamine has a structural selectivity for substrates which are structurally different to each other.

L10 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1985:484091 CAPLUS
DOCUMENT NUMBER: 103:84091

ORIGINAL REFERENCE NO.: 103:13469a,13472a
TITLE: Synthesis and evaluation of a miniature organic model of chymotrypsin
AUTHOR(S): D'Souza, Valerian T.; Hanabusa, K.; O'Leary, T.; Gadwood, Robert C.; Bender, Myron L.
CORPORATE SOURCE: Dep. Chem., Northwestern Univ., Evanston, IL, 60201, USA
SOURCE: Biochemical and Biophysical Research Communications (*1985*), 129(3), 727-32
CODEN: BBRCA9; ISSN: 0006-291X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An artificial chymotrypsin, with all the features of the real chymotrypsin, namely a binding site (from cyclodextrin) attached to a catalytic site containing an *imidazolyl* group, a carboxylate group, and a hydroxyl group, was synthesized. This artificial chymotrypsin has a mol. weight of only 1365, whereas the real enzyme has a mol. weight of 24,800. However, from preliminary measurements, both the real and artificial enzymes have approx. the same catalytic activity (both rate and binding consts.).

L10 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1970:476396 CAPLUS
DOCUMENT NUMBER: 73:76396
ORIGINAL REFERENCE NO.: 73:12487a,12490a
TITLE: Inclusion compounds. XXII. Cyclodextrin-*imidazole* compounds
AUTHOR(S): Cramer, Friedrich; Mackensen, Georg
CORPORATE SOURCE: Abt. Chem., Max-Planck-Inst. Exptl. Med., Goettingen, Fed. Rep. Ger.
SOURCE: Chemische Berichte (*1970*), 103(7), 2138-47
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
AB Non-stoichiometric amorphous title compds. (I) were prepared by reaction of a cyclodextrin (II) [6-O-(RSO2)(-substituted) derivs. of α-or-β-II (where R = Me, p-MeC6H4, or Ph and n = 6 or 7), or the 6-iodo-6-deoxy or pertrifluoroacetyl derivative of β-II] with 4(5)-(R1-substituted)-*imidazoles* (III) (where R1 = H, CH2NH2, CH2Cl, or CH2CH2NH2). The catalytic effect of the following I on the hydrolysis rate of AcOC6H4NO2-p at pH 7.5 was determined [II component, III derivative or component where X = 4(5)-*imidazolyl*, and rate constant (105 sec-1) given]: -, -, 1.2; α-II, -, 3.2; β-II, -, 5.9; 6-amino-6-deoxy derivative of α-II, -, 122; 6-amino-6-deoxy derivative of β-II, i, 245; β-II, (CH2OCH2X)2, 384; β-II, (CH2NHCH2X)3, 36.5; β-II, (CH2NHCH2CH2X)3, 61.5; β-II, (CH2NHCH2CH2X)4, 128; β-II, (CH2X)4, 54; β-II, (CH2X)6, 84.5; α-II, (CH2OCH2X)3, 25; α-II, (CH2NHCH2X)2, 44.7; and α-II, (CH2NHCH2CH2X)3, 76.8. Thus, a model reaction for the serine OH group cooperation with a histidine *imidazolyl* group in the active site of chymotrypsin was obtained.

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